Exhibit 1

		2011
1	IN THE UNITE	D STATES DISTRICT COURT
2	FOR THE DI	STRICT OF NEW JERSEY
3		
4		
		:
5	IN RE: JOHNSON & JOHN	ISON: MDL NO. 2592
	TALCUM POWDER PRODUCTS	: 16-2738 (FLW) (LGH)
6	MARKETING, SALES PRACT	CICES :
	AND PRODUCTS LIABILITY	:
7	LITIGATION	:
		:
8	THIS DOCUMENT RELATES	TO: :
	ALL CASES	:
9		:
10		
11	V	ideotaped Deposition of
12		MARK KREKELER, Ph.D.
13	Taken:	By the Defendants
		Pursuant to Notice
14		
	Date:	January 25, 2019
15		
	Time:	Commencing at 9:16 a.m.
16		
1.5	Place:	Hampton Inn
17		375 South College Avenue
1.0		Oxford, Ohio 45056
18	D	Guran M. Gar. DWD. GDD
1.0	Before:	Susan M. Gee, RMR, CRR
19		Notary Public - State of Ohio
20		and
20		Melinda Sindiong, CLVS
21		
23		
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	On behalf of the Plaintiffs:	2 3	WITNESS.	MADE EDEVELED DED	
3	BEASLEY ALLEN LAW FIRM	4	WIINESS.	MARK KREKELER, Ph.D. PAGE	
4	BY: P. LEIGH O'DELL, ESQ.	5	CROSS-EXA	AMINATION	
_	BY: JENNIFER K. EMMEL, ESQ.	6		Frost 8	
5	218 Commerce Street Montgomery, Alabama 36103	7		AMINATION	
6	(334) 269-2343	8	By Mr	Ferguson 28	3
7	leigh.odell@beasleyallen.com jennifer.emmel@beasleyallen.com	9	EXAMINAT		
8	MOTLEY RICE LLC	10		i. O'Dell 309	
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10	(843) 216-9160	1	1	EXHIBITS	
11	cscott@motleyrice.com	14			
	WILENTZ, GOLDMAN & SPITZER, P.A.		NUMBER	DESCRIPTION	PAGE
12	BY: DANIEL R. LAPINSKI, ESQ. 90 Woodbridge Cener Drive	15			
13	Suite 900		1 11/16	5/18 Rule 26 Expert Report of	13
1,,	Woodbridge, New Jersey 07095	16		Krekeler, Ph.D.	1.0
14	(732) 865-6066 dlapinski@wilentz.com	17		19 Rule 26 Addendum to the	13
15	•	18	Exper	t Report of Mark Krekeler, Ph	i.リ.
16 17	On behalf of Defendant Johnson & Johnson: DRINKER BIDDLE & REATH LLP	-	3 IRSS	T report R-755	32
	BY: JACK N. FROST, JR., ESQ.	19	2 1100		
18	600 Campus Drive Florham Park, New Jersey 07932			57 Bureau of Mines Informati	ion 86
19	(873) 549-7338	20		lar/1977	
	jack frost@dbr.com	21	5 IARC	Monographs on the Evaluation	on of 91
20	SKADDEN, ARPS, SLATE, MEAGHER & FLOM		Carcii	nogenic Risks to Humans, Vol	. 93
21	BY: NINA R. ROSE, ESQ.	22	6 IIC	Demontment of Health and Hu	man 109
22	1440 New York Avenue, N.W. Washington, D.C. 20005	23		Department of Health and Hui ces Toxicological Profile for	man 109
	(202) 371-7105			tos 9/2001	
23	nina rose@skadden.com	24	115005	105 9, 2001	
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	APPEARANCES: On behalf of Defendant Pharmatech: TUCKER ELLIS LLP TARIQ M. NAEEM, ESQ. 950 Main Avenue, Suite 1100 Cleveland, Ohio 44113 (216) 696-3675 tariq naeem@tuckerellis.com On behalf of Defendant Imerys Talc America, Inc.: GORDON & REES SCULLY MANSUKHANI, LLP BY: KENNETH J. FERGUSON, ESQ. 816 Congress Avenue Suite 1510 Austin, Texas 78701 (512) 391-0197 kferguson@gordonrees.com GORDON & REES SCULLY MANSUKHANI, LLP BY: ANDREW W. CARY, ESQ. 275 Battery Street Suite 2000 San Francisco, California 94111 (415) 875-3163 acary@grsm.com On behalf of Personal Care Products Council: SEYFARTH SHAW LLP BY: JAMES R. BILLINGS-KANG, ESQ.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	7 NIOS Asbes Miner and R 8 State Geolo South by Ric 9 Intern Serpe: Chrys 10 Wind Geolo Johns Bates 11 Usin of talc of am Bradle 12 Geol Malco 13 Lette Bates 14 Krek Vario 15 Depa	DESCRIPTION SH Current Intelligence Bullettos fibers and Other Elongate al Particles: State of the Scieroadmap for Research, Revised of Montana, Bureau of Mines 1987, Reconnaissance Geology ernmost Ravalli County, Monchard B. Berg national Geology Review, The 1987 multisystem Revisited: otile is Metastable 1989 of the Talc Mine at East 1989 of the Talc Mine at East 1989 of the Talc Mine at East 2080, Vermont 1980 JNJ000272469 - 668 gthe geologic setting 2080 deposits as an indicator 2080 phibole asbestos content by 2080 S. Van Gosen, et al. 1980 sos, December 1974 per from RJ Lee Group dated 5/JNJ 000521616 - 638 steler Deposition Italian Documus Bates numbers 1980 artment of the Interior Geological 2080 phisological 208	PAGE in 62 116 nce de la Edition and 120 of tana, 140 144 160 160 160 160 161 nents 164
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1 2	NII IN	EXHIBITS MBER DESCRIPTION PAGE	1	Rees, for Imerys.
3	18	MBER DESCRIPTION PAGE Preliminary Investigation of Cosmetic 188	2	MR. CARY: Andrew Cary, Gordon & Rees,
4		Talc Potential, Lungsheng Operations, Kwangsi, China	3	for Imerys.
4		Bates JNJNL61_00002060 - 89	4	MR. NAEEM: Tariq Naeem, Tucker Ellis,
5	10		5	for the Pharmatech defendants.
6	19	Sampling of Run-of-mine mill feed - 209 A practical approach	6	MR. BILLINGS-KANG: James Billings-Kang
7		by Afewu and Lewis	7	for Personal Care Products Council.
′	20	Email dated 10/31/13 218	8	VIDEOGRAPHER: The court reporter is
8 9	21	Bates JNJ14T5_000005157 - 48	9	Susan Gee, RMR and CRR, and will now swear in
9	21	Zuffar Days Symposium Held in Cagliari 236 October 10 - 15, 1988	10	the witness, and we can proceed.
10		Geology of the Italian high quality cosmetic talc from the Pinerolo district	11	MARK KREKELER, Ph.D.
11		(Western Alps) by Sandrone and Zucchetti	12	of lawful age, a witness herein, being first duly sworn
12	22	(Western Alps) by Sandrone and Zucchetti Krekeler Deposition Asbestos Documents 240	13	as hereinafter certified, was examined and deposed as
13		Various Bates numbers	14	follows:
	23	An Introduction to the Rock-Forming 285	15	CROSS-EXAMINATION
14 15	24	Materials by Deer, Howie & Zussman The Mineral Industry of Italy by 288	16	BY MR. FROST:
		by Harold R. Newman	17	Q. Good morning, Dr. Krekeler. My name is
16	25	Analysis of an Authentic Historical 289	18	Jack Frost. I'll be asking you probably the majority of
17	23	Italian Cosmetic Talc Sample - Further	19	the questions today.
18		Evidence for he Lack of Cancer Risk	20	A. Okay.
	26	Excerpt from the Deposition of Patrick 291	21	Q. But before we get started, could you
19 20	27	Downey taken 11/8/17 FDA Action Related to Talc 297		please state your full name for the record?
21	28	USB Jump Drive 331	23	A. Mark Paul Spigg Krekeler.
22	29 30	Color Photograph 331 Color Photograph 331	24	Q. And where do you currently work?
24	30		25	A. I am an associate professor at Miami
25				71. I am an associate professor at Mann
		Page 7		Page 9
1		Page 7 VIDEOGRAPHER: We are now on the record.	1	Page 9 University. I hold an appointment where my tenure is
1 2	-			University. I hold an appointment where my tenure is held on the Oxford campus in the department of geology,
		VIDEOGRAPHER: We are now on the record.		University. I hold an appointment where my tenure is
2	,	VIDEOGRAPHER: We are now on the record. My name is Melinda Sindiong, CLVS. I'm	3	University. I hold an appointment where my tenure is held on the Oxford campus in the department of geology,
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Page 10 Page 12 1 A. Very good. 1 just say it again and agree on it or -- I'm unclear. 2 ² I've never done this before. Q. So we just need to make sure that, you 3 know, we're verbalizing everything. 3 BY MR. FROST: Second thing is, and I guarantee we'll Q. Sure. So to the extent we can, just 5 get in trouble for this at some point. It's very hard 5 listen to my question and answer the question, yeah, as 6 for the court reporter to write down when both of us are 6 I've asked it. What shows up on the screen is called 7 talking at the same time. I'm not saying we're doing it phonetic, so sometimes the words converted over by the 8 in a rude way but just normal human conversation. computer will be incorrect, and ultimately, when they 9 Eventually, you'll pick up what the end of my question come and transfer it for the final transcript, it will 10 is. I'll pick up the end of your answer, and we'll just 10 change. 11 start naturally talking over each other. We've got to 11 So these are sort of there as a guide, if 12 be really careful about that, you know, make sure she 12 we can't remember what we're talking about a couple 13 can write it down. 13 minutes ago, to look back. But this is not the official 14 At some points during the deposition, 14 record. The official record will be what's on the 15 your counsel may object or other people in the room may video, and then, ultimately, what's in the transcript, 16 object. Allow time to give counsel, you know, to put which might end up being a little different than what's 17 their objections on. Once they're done, unless you're on the screen. 18 instructed otherwise by your counsel, you have to answer A. Okay. And because -- so a third party 19 my question. would go and transcribe what's on the video? 20 20 The other thing is, if you answer my So I'm not sure at the end, yeah. 21 So if there's something garbled on here, 21 question, I'm going to understand you assumed it or A. 22 understood it. So if you don't understand what I'm 22 someone else does that? 23 23 asking, you need clarification, let me know. If there O. Yes. That's correct. 24 is, you know, something you need for me to work out, I'd A. So they don't come back to me or --25 rather work it out than have you answer something that, No. You don't need to worry about that. Page 11 Page 13 1 you know, you and I are talking at different places. 1 That's done somewhere else. 2 The only other thing, too, I don't want Okay. Yeah. I don't -- I don't know. ³ you to guess here today, and if you're guessing or 3 No. That's okay. It's a fair question. 4 making an estimate, just let us know. And, you know, 4 But --5 but if it's a wild guess, I don't know, I don't VIDEOGRAPHER: Sorry. If I can interject ⁶ remember, those are perfectly fine answers. 6 as well, you're talking with your hands, and it 7 And other than that, if you need a break does get in the shot. 8 8 at any time, let us know. If there's a question MR. FROST: Oh, mine does? 9 9 pending, you've got to answer the question first, but VIDEOGRAPHER: Yes. 10 we're here on your schedule, so -- and we'll try to 10 THE WITNESS: Okay. Sorry. 11 break every hour, hour and a half or so, but if you need 11 VIDEOGRAPHER: Thank you. 12 MR. FROST: All right. So if I can mark 12 to break in between, you know, just let us know, and 13 13 we'll stop. a couple exhibits to begin. I'll mark this as 14 A. Can I ask a question? 14 Exhibit 1. 15 15 Q. (Exhibit 1 was marked for Sure. 16 So I've never done this before. I've identification.) 17 never been deposed, and I noticed early on, when the MR. FROST: I'll mark this as Exhibit 2. videographer was making some statements, that the 18 THE WITNESS: Does it matter which copy? statements that I heard were not recorded accurately on 19 MS. SCOTT: You can take a look at 20 this. So the word was "demotion." 20 whichever you're more comfortable with. They're 21 MS. SCOTT: You don't need to worry about 21 the same. 22 22 that. MR. FROST: I imagine they're the same, 23 23 So but my question is, is if I go -- if I right? 24 use this to read your question, how do I know a word's 24 (Exhibit 2 was marked for 25 25 not -- how do we make sure that word is right? Do we identification.)

Documen Mark

Page 14

1 BY MR. FROST:

- 2 Q. All right. In front of you marked as
- 3 Exhibits 1 and 2 are your expert report that's dated
- 4 November 16th, 2018, and then Exhibit 2 is your
- 5 supplemental report dated January 17th, 2019; is that
- 6 correct?
- 7 A. Yes.
- 8 O. Are these the only two reports that
- vou've written in this case? 9
- 10 A. Yes.
- 11 Q. Now, you understand you've been
- 12 designated by the plaintiffs in this case in the Johnson
- & Johnson talc MDL?
- 14 A. Yes.
- 15 O. Okay. Can you explain to me what, or
- define what your area of expertise is?
- 17 A. Yes. So my undergraduate degree was in
- 18 geology, and since my freshman year, I've been working
- with clay materials and clay intervals. My degree is
- 20 in -- my undergraduate degree is a bachelor's of science
- 21 in geology, and so that entailed field work. And,
- 22 actually, I think since my freshman year, I've been
- 23 doing powder x-ray diffraction. My master's was on,
- 24 also, a clay rich rock, bentonite, so -- and then in --
- 25 I finished that degree in '98.

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- 1 phyllosilicates as well. And, basically, I worked with
- 2 industrial mineral materials, mine materials, and then
- 3 my time at Miami University, I've also worked with
- synthetic minerals and natural minerals.
- So my training as a Ph.D. student was to
- 6 look at the phyllosilicate minerals as a whole. So
- 7 mineralogy has evolved significantly in that we think of
- minerals as sort of a system, and we look at things at
- how they're interrelated. And that's -- so, basically,
- 10 I've had some -- my degree is in geotechnical
- engineering and environmental earth science, so I have a
- few engineering classes. And then I've collaborated and
- worked with several mineral companies. My Ph.D. was
- sponsored by a mineral company, in part.
 - Q. So long story short, would you define
- your area of expertise as mineralogy?
- 17 A. Yes.

18

- Q. Okay. And the two reports in front of
- you, do those reflect all the opinions you plan to give
- in this case or intend to give in this case?
- 21 A. Well, again, I'm legally not familiar
- with the process, but I think I -- currently, this is my
- opinions. If something new comes up and I'm asked, I
- would...
- 25 Okay. I guess a better way to ask that

Page 15

- Then my Ph.D. was in mineralogy and 1
- 2 specifically phyllosilicate mineralogy and looking at
- 3 the impurities and materials associated with
- 4 phyllosilicates. My dissertation was on
- 5 palygorskite-sepiolite minerals and smectite minerals.
- 6 My Ph.D. advisor was Steve Guggenheim, who essentially
- 7 is the North American expert in crystallography for
- phyllosilicates. 8
- 9 And, then, so I finished that degree in
- 10 2003. Throughout my degrees, I think my first
- 11 consulting job was a project with Amoco when I was an
- 12 undergrad doing x-ray diffraction, looking at clays from
- 13 Trinidad through my advisor, Warren Huff. But through
- 14 that period of time, I did occasional consulting
- 15 projects, largely with powder x-ray diffraction and
- 16 sometimes electron microscopy.
- 17 Then I did not do a postdoc. There were
- 18 two mineralogy positions available nationwide when I
- graduated. My graduation year was 2003. I then got one
- 20 of those positions at George Mason University, and I was
- 21 hired in a department of environmental science and
- 22 policy. And my research there, I was specifically
- 23 teaching mineralogy. Then my research was centered
- 24 around mineralogy.
- 25 I produced a few patents relating to

- 1 question --
- 2 Sorry. I'm unclear. I'm not familiar.
- Yeah. That's okay. As we sit here
- 4 today, do you intend to offer any opinions in this case

Page 17

- that aren't reflected in either of these two reports?
- No. The reports are what I am using.
- And were you asked to render any reports
- by your counsel that you did not or are not included in
- those reports?

10

12

22

- MS. SCOTT: Objection. You can answer.
- 11 BY MR. FROST:
 - O. You can answer.
- 13 Oh, I can answer? So, if I remember
- correctly, with the deposition notice, it was requested
- that reports or documents I prepared relating to, I
- think, all talc cases were requested. So there's one
- report that I gave to them from another case that I'm
- involved in.
- 19 Q. Okay. So you're currently involved in
- 20 another talc case or is this an older case?
- 21 This is a current case. A.
 - Q. And it's a talc case?
- 23 It is a talc-related case, yes. A.
- 24 Is it a case against Johnson & Johnson? O.
 - I believe it's a case against Imerys.

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	Page 18		Page 20
1	Q. Figurise Interys. Do you know what the	1	cite throughout the report?
2	case is called or where it's venued?	2	A. Yes.
3	A. I don't remember offhand. The law firm	3	Q. The piece of literature, things like
4	is waters & Traus.	4	that?
5	Q. That's who retained you?	5	A. Yes.
6	A. Yes.	6	Q. Okay. Other than documents, books,
7	Q. Do you know what state it's in?	1	literature, et cetera, that are already included in your
8	A. The law firm is in Texas. I think the	8	report, have you brought anything else with you today?
9	case is in Texas.	9	A. No. I believe just what is in the
10	Q. And what have you been asked to do in	10	report.
11	that tast.	11	Q. Okay. We're also going to probably send
12	MS. SCOTT: I'm going to object to the	1	a request for, you know, a copy of the report written on
13	extent that I'm not aware of what his role is in		the outer table as well to seems the to was turned
14	that case.		over to counsel.
15	MR. FROST: Sure.	15	MS. O'DELL: No. You misunderstood.
16	MS. SCOTT: And I'm not sure he knows	16	It's not been turned over to counsel.
17	what's going on and, you know, the extent of	17	MR. FROST: It hasn't been turned over to
18	the whether he's been disclosed in that case	18	you guys.
19	or not.	19	MS. O'DELL: We don't have any
20	MR. FROST: Okay.	20	information about that case.
21	MS. SCOTT: So I'm going to object to any	21	MR. FROST: Oh, okay.
22	questions on that.	22	MS. O'DELL: Yeah. So if you have any
23	MR. FROST: All right. We'll reserve our	23	questions about that, you need to talk to Waters
24	right to come back.	24	& Kraus or whoever else is involved.
25	MS. SCOTT: Sure.	25	
-			
	Page 19		Page 21
1	Page 19 BY MR. FROST:	1	Page 21 BY MR. FROST:
1 2	_	1 2	_
	BY MR. FROST: Q. Have you brought that report that you	2	BY MR. FROST:
2	BY MR. FROST: Q. Have you brought that report that you	2	BY MR. FROST: Q. So before, when you said you'd given the
2	BY MR. FROST: Q. Have you brought that report that you drafted in that case with you today?	2	BY MR. FROST: Q. So before, when you said you'd given the report to counsel, you're talking about Waters & Kraus,
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2 3 4 5 6	BY MR. FROST: Q. Have you brought that report that you drafted in that case with you today? A. I don't know. Q. Okay. Did you bring anything with you	2 3 4 5	BY MR. FROST: Q. So before, when you said you'd given the report to counsel, you're talking about Waters & Kraus, not A. I don't recall specifics.
2 3 4 5 6	BY MR. FROST: Q. Have you brought that report that you drafted in that case with you today? A. I don't know. Q. Okay. Did you bring anything with you I'll start. So there seems to be a table of stuff next	2 3 4 5 6	BY MR. FROST: Q. So before, when you said you'd given the report to counsel, you're talking about Waters & Kraus, not A. I don't recall specifics. Q. All right. Have you turned that report
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- ¹ Johnson & Johnson MDL case.
- 2 Yes. I'm up to date with invoices.
- 3 And did you bring any of those invoices Q.
- 4 with you?
- 5 MS. SCOTT: Counsel, those were provided
- 6 previously about a week ago by email.
- MR. FROST: All right.
- BY MR. FROST:
- 9 O. But other than that, there's nothing, no
- 10 additional documents or invoices?
- 11 Right. There's no outstanding billing or A.
- 12 anything --
- 13 Q. Yeah.
- 14 A. -- like that.
- 15 O. Okav.
- 16 Yeah. We're all caught up. A.
- 17 All right. Turning back to the reports
- 18 that are in front of you as Exhibits 1 or 2, are these
- 19 reports complete, as far as you're concerned?
- 20 To the best of my knowledge, they're
- 21 complete, based on what I was provided to review.
- 22 And do you believe what's reflected in
- those reports is accurate?
- A. I believe that my opinions are accurate.
- 25 The data as presented as findings are as they are

- A. Is it fair to say that, effectively, the
- 2 opinions you're rendering here are limited to review of

Page 24

Page 25

- 3 the geologic deposits utilized by Johnson & Johnson
- and -- it's kind of garbled.
 - Yeah. And Imerys. Q.
- And to create talcum powder. So, yes, I
- reviewed those materials.
- Okay. And you're not here to opine about
- anything outside of those geological deposits and the
- mining practices, et cetera, that were going on at those
- 11 areas?
- 12 MS. SCOTT: Objection.
- 13 A. So the nature of mineralogy, as I alluded
- to earlier, is very systematic, right? So it's not the
- same deposit. It's not the same deposit, but there's
- 16 Caledonia. New Caledonia is a terrain that has a lot of
- talc in it, that has a lot of nickel in it, and so,
- essentially, the geologic knowledge as a whole,
- essentially, I'm relying on my educational base, my
- research base, things like that. So being aware of the
- geology of talc and the mineralogy of talc, geochemistry
- of talc through global settings is critical to evaluate
- any subset of data relating to talc and associated
- 24 rocks.
- 25

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- 1 interpreted by the company. So when you say -- again,
- ² I'm unexperienced.
- 3 Sure. Q.
- So when you say "accurate," I don't think
- 5 some of the report, some of the findings are
- 6 scientifically accurate, based on the analytical
- methods. So... 7
- 8 Q. Are you talking about some of your
- 9 findings? I'm asking sort of what your ultimate
- 10 opinions and your findings in this case. Do you believe
- 11 that what you've opined to in this case is accurate in
- 12 these reports?
- 13 So is my opinion --A.
- 14 O. Yes.
- 15 -- accurate? A.
- 16 O. Yes.
- 17 Yes, I believe my opinion is accurate. A.
- 18 Is there anything, before we get started
- going through those opinions, that you want to change or
- amend? 20
- 21 A. No.
- 22 And is it fair to say that, effectively, O.
- 23 the opinions you're rendering here are limited to review
- 24 of the geologic deposits utilized by Johnson & Johnson
- 25 and Imerys to create talcum powder?

- 1 BY MR. FROST:
- Q. I'll ask it a sort of different way.
- 3 I'll break it down. You didn't do any testing here of
- any product, right?
- I was not asked to do any testing.
- Okay. And you're not going to render any
- opinions about what causes disease, anything of that
- 8 nature?
- 9 Correct. I am not a medical expert. I
- am not an environmental health expert.
- 11 And you're not going to render any
- opinions about what level of exposure to any particular
- metal or contaminate can cause disease?
- Again, I would defer for details to
- environmental health experts and medical experts.
- 16 You're not going to render any opinion
- that use of Johnson & Johnson talcum powder causes
- ovarian cancer, right?
- 19 So I'm sorry. I am not an expert in the
- 20 molecular mechanisms of carcinogenicity, if I said that
- correct. I don't know. I'm not a medical person. So,
- 22 no.
- All right. Looking at Exhibit 2, which 23
- 24 is the addendum report, why did you draft this addendum?
- 25 New materials became available.

Q. When were you asked to draft the addendum?

3 A. I think when Longo had his supplemental,

4 and then I can't remember exactly when, but what really

5 caught my eye was this testing where they used

6 .1 milligrams of a sample, and that's not representative

7 in any way, and then they use a silver membrane.

Q. I'll stop you here, because we'll be here

9 for a very long time.

10 A. Okay.

Q. So the question was: When were you asked

12 to draft the report?

A. I'm sorry. I'm sorry. You're right. I

14 got distracted. It was in January sometime.

Q. And if you look at the second paragraph

16 of the report, it states, "After I submitted my

preliminary report on November 16, 2018, I reviewed

18 additional documents provided by Johnson & Johnson and

19 Imerys through the course of this litigation as well as

20 documents produced after submitting my report." Is that

21 correct?

1

22 A. Yes.

Q. If you turn to pages 4 -- I'm sorry, page

24 5 of the report. You list the supplemental materials

25 and data considered?

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A. I might have been confused with the Longo

² title. It says, "Analysis of Johnson & Johnson's

3 historical product," so that might be the source of

4 the...

5 Q. Do you know if there are anything else or

6 any other changes that you'd like to make to either the

7 supplemental or the original report?

8 MS. SCOTT: Objection. Asked and

9 answered.

10 BY MR. FROST:

11 Q. You can answer.

12 A. Do I --

Q. Yeah. Do you know if there are any other

14 typos or anything else you'd want to correct in either

of the two reports?

A. I think there are a few typos in the

17 report, or I'm, you know, I'm not perfect so...

8 Q. We talked about, sort of, what's in the

19 binders over there and in the tubs. We'll start with

20 the binders, which are the documents. Did plaintiffs'

21 counsel provide all of the documents you relied on from

22 both Imerys and Johnson & Johnson in this case?

MS. SCOTT: Objection.

A. I requested documents from the lawyers to

Page 29

25 review.

16

23

24

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A. Yes.

Q. Am I also correct, you only list Imerys

3 documents as the additional materials reviewed?

A. Yes.

5 Q. Okay. So you, in fact, did not actually

6 review any additional Johnson & Johnson documents to

7 create this addendum; is that correct?

8 MS. SCOTT: Objection.

9 A. I don't remember specifically. That may

10 be a typo. I think I -- I think it's likely that I

11 looked at some Johnson & Johnson documents but only

12 ended up focusing on these others.

13 BY MR. FROST:

Q. Do you know what additional Johnson &

15 Johnson documents --

A. I don't. I don't remember.

Q. Okay. And I take it because they didn't

18 make it into the report, it's not something you're

19 relying on?

16

MS. SCOTT: Objection.

21 A. I don't know.

22 BY MR. FROST:

Q. Are there any other typos --

A. So I think --

Q. Go ahead.

1 BY MR. FROST:

Q. What did you request from the lawyers?

A. I requested any documents relating to the

4 mineralogy, the geology, things such as coring, x-ray

⁵ diffraction, bulk chemical tests, electron microscopy,

6 anything relating to, essentially, problems in

7 manufacturing or things that are related to how well

8 audits, for example -- audits would be a good example of

9 something that would be a third-party objective thing,

and I think there's, you know, there's an audit in here,

and any, any materials that would give sort of a big,

12 big picture of the situation at hand.

Q. Did you ever ask to have access to all

4 the documents so you could perform searches yourself?

A. I don't remember. I remember I reviewed

a lot of, a lot of documents, but I don't remember if I

17 specifically asked that. I asked for things relating to

18 what I just said.

Q. Did you ever run any searches against any documents to see if there's anything additional to what

21 was provided to you?

MS. SCOTT: Object to form. You can

23 answer.

22

A. What do you mean by "search"? So I

25 don't -- it was my understanding that -- so this is sort

- 1 of a closed system that, essentially, there's the
- 2 documents that the company produces. If I were to
- 3 search for something else, I don't necessarily know if
- 4 that's from the company, right, or that's my thought.
- 5 So I did not -- I didn't do any additional searches.
- 6 BY MR. FROST:
- 7 Q. So you just relied on the documents as
- provided to you by plaintiffs' counsel?
- 9 Yes.
- 10 MS. SCOTT: Objection.
- 11 For these, for the documents that were
- 12 used.
- 13 BY MR. FROST:
- 14 Q. And you have no way of knowing whether or
- 15 not they've given you a complete set of every document,
- correct, that hits the categories you asked for?
- 17 MS. SCOTT: Objection.
- 18 A. I think it's very representative of a
- 19 set. But, I mean, as I understand, there's, you know,
- 20 an enormous amount of data, as there should be, and that
- 21 is -- that would be expected, but, you know, I've
- 22 reviewed what was requested.
- 23 BY MR. FROST:
- 24 Q. You reviewed what was provided, not what
- 25 was requested, correct?

- 1 There's a lot of data, as I understand it. I don't
- 2 think it's reasonable to review every document.
- 3 Unfortunately, I'm one person, and if there's hundreds

Page 32

Page 33

- 4 of thousands of pages of documents, yeah, I don't think
- 5 any single person can review those in a reasonable
- 6 manner.

13

- ⁷ BY MR. FROST:
- Q. So you don't think it's important, as an
- expert giving opinions about the overall mining and
- sampling and testing practices of Johnson & Johnson, to
- 11 have looked at or at least had access to the complete
- set of documents?
 - MS. SCOTT: Objection.
- A. I think it's important to have a 14
- 15 representative set, and that representative -- you know,
- so -- you know, I didn't look at one document. I didn't
- 17 look at a few documents. You know, here's Hopkins'
- deposition, for example. There's all kinds of documents
- in that. There's a lot. There is a lot, but it's my
- expert opinion that the amount of documents that I
- reviewed were adequate to arrive at my conclusions.
- 22 BY MR. FROST:
- 23 Q. And, again, that's solely based on the
- 24 set of documents that was compiled for you by
- plaintiffs' counsel in this case given to you, which you

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- 1 What was provided that I requested from
- 2 them.

6

- 3 And you don't know whether or not -- you
- 4 have no way of telling, sitting here, whether or not
- you've been given the complete record, correct?
- MS. SCOTT: Objection. Asked and 7 answered. You can answer if you can.
- 8 A. I think it's, I think it's very
- 9 representative. So I found examples where asbestos and
- 10 contaminate -- essentially where asbestos was
- 11 undetected. You know, I looked at a wide variety of
- 12 things.
- 13 BY MR. FROST:
- Q. But you would agree with me it's a
- 15 representative set as chosen to be given to you by your
- counsel? 16
- 17 MS. SCOTT: Objection.
- 18 A. I think it's representative.
- 19 BY MR. FROST:
- 20 Q. You have no way of knowing what else
- 21 might exist, correct?
- 22 MS. SCOTT: Objection. Asked and
- 23 answered. You can answer.
- 24 A. So, yeah, there could be more bad reports
- 25 out there. There could be more good reports out there.

- 1 don't know is complete or not, correct?
- 2 MS. SCOTT: Objection.
- A. I believe it is a representative set of
- 4 documents, but I did rely on what they provided as
- 5 that's what I requested. I requested the documents, as
- 6 I previously indicated in the answer.
- BY MR. FROST:
- Q. So you keep calling this a representative
- set, but how can you make a determination if a set is
- representative if you hadn't actually looked at or had
- access to the full set of documents?
- 12 MS. SCOTT: Objection.
 - A. It's my expert opinion that's a -- it's a
- reasonable amount of documents. There's, you know --
- BY MR. FROST:
- 16 Q. So you're basing the representativeness
- off of the sheer size of the pile of documents on the
- 18 table?

13

- MS. SCOTT: Objection.
- 20 A. It's what I think is a representative
- population of documents. I mean, there's -- there are a
- lot of documents, but I've -- and I've looked at a lot
- of documents, and I've arrived at my professional
- opinion based on the review of those documents.
- 25

Page 34 Page 36 1 on page 5 of the shorter document. 1 BY MR. FROST: 2 Would it change your opinion --Q. Okay. And these are all Longo expert 3 I can't ask a question, right? ³ reports, correct, Longo testing reports? A. 4 Q. Yes. 5 A. Okay. All right. Yeah. Q. Did you ever see any draft reports from 6 Would it change your opinion if you knew 6 any other experts in these cases before you finished that the set of documents provided to you by plaintiffs' yours? counsel only represents a portion of the story and there A. No, I did not. are hundreds and possibly thousands of additional O. Have you reviewed any other expert documents that weren't provided to you by counsel? reports given in any talcum powder cases other than this 11 MS. SCOTT: Objection. one? You know, for example, were you provided any 12 expert reports from other cases against Johnson & A. So those documents would not negate the 13 findings of the report. So, for example, if there was Johnson? 13 14 14 an additional document that said talc was undetected, it A. I'm trying to think about the other case wouldn't negate the findings of the materials starting 15 for a moment. I don't remember. 16 on page 14. 16 And have you reviewed any deposition or 17 BY MR. FROST: 17 trial transcripts in either preparation of your report 18 Q. Well, that's -- I'm glad you brought that or to prepare for today's deposition? 19 up, because we'll get to those at the end of the 19 A. Yes. 20 deposition, because I think you were actually not 20 What depositions have you reviewed? Q. 21 provided some very important documents regarding that 21 Hopkins. A. 22 chart, but we'll turn back to that later when we start 22 I guess I'll ask it a different way. 23 Other than the ones that are already reflected in your going through the report. 24 A. Okay. 24 report, have you reviewed any depositions of any other 25 experts in talcum powder cases, any other, you know, But it wouldn't change your opinion at Page 35 Page 37 1 all to know that you were only given a selection of 1 other than --² documents that supported plaintiffs' theories in this 2 A. Not that I remember. 3 -- Dr. Downey, Dr. Hopkins? 3 case? 4 MS. SCOTT: Objection. Asked and 4 I don't remember. THE WITNESS: Can we take a little break? 5 5 answered. 6 No. My opinion remains unchanged. 6 MR. FROST: Sure. A. 7 ⁷ BY MR. FROST: VIDEOGRAPHER: We're now going off 8 And, again, it wouldn't change your 8 record. The time is 9:53. Q. 9 opinion if you knew that there are documents that 9 (A recess was taken from 9:53 to 10:04.) 10 specifically refute some of the findings that you've 10 VIDEOGRAPHER: We are now back on record 11 relied on in these reports? 11 and the time is 10:04. 12 12 BY MR. FROST: MS. SCOTT: Objection. 13 A. Again, my opinion remains unchanged. The Q. All right. Before going on the break, we 14 data present demonstrates that there was asbestos talked about whether or not you'd read any depositions of any other experts in these cases. Has plaintiffs' ¹⁵ materials and metals materials. 16 BY MR. FROST: counsel ever discussed with you the testimony of any 17 17 other experts in these cases? Have you reviewed any reports from other 18 experts in this case? 18 MS. SCOTT: Objection. 19 19 A. Yes. MS. O'DELL: I would instruct the 20 We know you reviewed Longo. You 20 witness -- I'm sorry. Instruct the witness not mentioned that in the report. Anybody else other than 21 to discuss anything that's been discussed or 21 22 22 Dr. Longo? communicated with plaintiffs' counsel. 23 23 A. Not -- let me look here. So the expert MR. FROST: Let's mark the record. I 24 reports are listed on page 97, and there are four of 24 disagree with that assumption because, you know, 25 25 those. And then the expert report, there's one listed I believe any discussion of depositions in these

Page 38 cases is discoverable under the federal rules,

2 but I'll move on. All right.

³ BY MR. FROST:

1

Q. Was there anything you asked plaintiffs'

counsel to provide for you in this case to help prepare

your reports that you were not given?

I'm sorry. Can you just say that again?

Sure. Was there anything you asked Q.

⁹ plaintiffs' counsel to provide you in preparation of

10 your report that you were not given or you didn't 11 receive?

12 A. No. I believe they gave me

13 representative materials of what I requested. I'm not

14 sure, but I also have the materials that I rely on. So

15 like the, you know, reviews in mineralogy books and

16 things like that are in the reliance list, but I

17 acquired those. They did not produce those.

18 Okay. That was actually my next question

19 is that the stuff that's under your reliance material

20 list, is that things that you independently found

yourself or that were provided to you by counsel?

22 Yeah, yeah. Those are things I found.

23 0. Were any of the articles --

24 A. Those --

25 Q. I'm sorry? A. The chart?

MS. SCOTT: Objection.

² included them in your final opinion paper?

BY MR. FROST:

Q. That was a bad question. Did you do any

1 reports or were they just provided to you and then you

Page 40

Page 41

editing of the charts that were included in the final

report or did you just put them in as provided by

counsel?

10

13

A. I directed them to put them in.

11 O. So plaintiffs' counsel ultimately put it

12 into the report the way it's structured?

MS. SCOTT: Objection.

14 A. I indicated the documents to be included

15 in the table, and they put it in the table.

16 BY MR. FROST:

Q. Is that true for all of the tables or did

they produce -- did they provide some of the content of

the tables as well?

20 MS. SCOTT: Objection.

21 I'd have to look to refresh.

22 BY MR. FROST:

23 That's okay. Take your time. O.

24 I'm already a little tired. That table,

²⁵ I requested them to do. And that table. Sorry. I'm

Page 39

Those are things I found on my own. You

2 know, many of the books I -- some I just had on my

3 shelf, you know. I've actually gone through three

4 versions of some of them.

So were any of the reports, treatises,

6 books, et cetera, you relied on provided to you by

plaintiffs' counsel?

8

10

A. No, I don't think so.

9 Did anybody help you prepare the report?

I asked counsel to create the charts that

11 are in the report, and this was my first time doing such

12 an extensive report. So I asked about organizational

13 issues, things like that.

What about other than the charts that 15 appear in the report? Did counsel assist you with any

16 of the other -- the word just escaped my mind. I

17 apologize.

18 A.

Any of the other, sort of principle of

20 research or any of the other opinions that are in the

21 paper?

19

22 MS. SCOTT: Objection.

23 A. No.

24 BY MR. FROST:

25 And did you have any hand at editing the 1 new at this, a little bit nervous. So I directed them

2 to put those tables in.

Q. Okay. Did you direct them to -- I'll

4 strike that.

So the actual documents that are

6 reflected in the tables, was that your work that you --

A. Those are documents I reviewed, yes.

Okay. And you're the one who put

together the list of documents for them ultimately to

put in table form to include in the report?

11 MS. SCOTT: Objection. Asked and

12

13

Ultimately, I selected the documents,

told them to put them in.

15 BY MR. FROST:

16 Q. In forming your opinions to this report,

did you have to come to any -- did you have to make any

assumptions that you relied on, then, for your ultimate

opinions? 19

20 MS. SCOTT: Objection.

That's kind of a tricky question. I

22 assumed that the documents provided by the company were

23 genuine.

25

24 BY MR. FROST:

Okay. Any other assumptions you had to

Page 42 Page 44 1 make to reach your opinions? 1 role was to be objective. And I reviewed several 2 A. I'm just thinking. I -- I don't think 2 documents, you know, numerous, numerous 3 documents objectively. 3 so. I -- I assume that documents that I reviewed were 4 BY MR. FROST: genuine, I guess, is maybe the best way to express that. 5 Q. And by "genuine," do you mean, you know, Q. And did you know what role the counsel part of the actual documents accompanied? 6 who engaged you had? Did you know that you were They weren't altered in some way or -representing the plaintiffs versus the company? 8 Q. Okay. Yep. I'm sorry. I missed a word. 9 9 Sometimes it was, you know, there were --Q. Did you know what role you were hired to 10 so, for example, the SEM document in this report and, 10 do? 11 actually, other things, the images were extremely 11 I knew they were on the side of the A. 12 degraded. It appeared that several documents had been 12 plaintiffs, yes. 13 And you knew that, ultimately, they were 13 photocopied, so one could supplant things. You know, 14 again, I don't know, so that's why I say that I assume looking for evidence of bad mining practices and 15 things are genuine. opinions regarding inadequate sampling, things of that 16 Q. Okay. I think we're on the same page 16 nature? about what "genuine" means. I just wanted to make sure. 17 MS. SCOTT: Objection. 17 18 A. A. I think they -- it's my opinion that they 19 Q. All right. And do you agree with me that were looking for data to support their case in some way 20 in forming your opinions, it's important for you to keep and also evaluate, potentially, if there was not a case. a fair and open mind and look at the data in an BY MR. FROST: 22 impartial way? 22 Q. Do you believe there's any additional 23 MS. SCOTT: Objection. data you need to see in order to fully evaluate the 24 I believe it's important to look at data, mining practices and the sampling practices by the two 25 yes. companies in this case? Page 43 Page 45 MS. SCOTT: Objection. Asked and 1 BY MR. FROST: 1 2 answered multiple times. Q. Do you believe it's important to look at 3 it in an impartial way? I would consider looking at other data, MS. SCOTT: Objection. 4 of course, but looking at that other data would not A. I did look at things impartially, yes. 5 5 change the opinions expressed in this report. Other 6 BY MR. FROST: 6 data doesn't negate the fact that we have all these 7 Q. Coming in to your review of the occurrences of materials. I mean, so there's over 90 documents, were you told what plaintiffs' liability 8 occurrences documented or there's about 90 or so in the 9 theories were in this case? one table of asbestos. You know, it doesn't negate --10 MS. SCOTT: Objection. for me, fundamentally, it's using the powder x-ray 11 I don't know what that word means. diffraction as the screening method that's fundamentally 12 BY MR. FROST: 12 flawed. The reasons, you know, I don't want to -- do 13 13 you want me to --O. Sure. 14 What's plaintiff liability theory? BY MR. FROST: 15 Q. Yeah. I'll ask it a different way. 15 Q. We'll get to that. 16 Okay. 16 A. A. I can stop. 17 17 Before you were coming in to review the We'll turn to that later. Q. 18 documents, were you told by plaintiffs, ultimately, what Okay. All right. Good. A. 19 an opinion or what type of opinion they were looking Q. You said before you're not a medical 20 for? 20 doctor, right? 21 MS. SCOTT: Objection. 21 I'm sorry? Medical doctor, no. A. And you're not a toxicologist, right? 22 22 No, not really. I mean, in our early Q. Correct. 23 discussions, my job was to evaluate the data, so -- and 23 A.

24

Q.

25 expert?

24 I feel I've done that objectively. I knew it was

25 connected to a case involving ovarian cancer, but my

And do you consider yourself a regulatory

Page 46 Page 48 1 A. No. 1 for the record, you don't know one way or the other 2 Q. And you're not an expert in regulatory 2 whether this mine --3 3 processes or mine regulations? A. I don't know the exact source. A. No, I'm not an expert. 4 MS. SCOTT: Be careful you don't talk 5 5 Before working on this report, have you over one another. ever worked with talc before? 6 6 THE WITNESS: I'm sorry. 7 In my class work, my advisor was Steve MS. SCOTT: That's okay. 8 Guggenheim, and, of course, Warren Huff was my master's THE WITNESS: I apologize. 9 advisor. So I had several clay mineralogy classes, and BY MR. FROST: 10 we analyzed talc. And my Ph.D. advisor specifically, 10 Q. And when you were at this mine in Darwin, 11 you know, he would tell me, go look at this mineral with 11 I take it there were no mine operations continuing at 12 the TEM and x-ray, so I would know and be familiar with the time you were visiting? 13 things, so but I don't have a specific thing on talc. 13 I believe it would just be alum land. 14 So other than, you know, your use of it But dealings and things were -- you know, I mean, things 15 in undergraduate and graduate and Ph.D. work, you know, you've never studied talc, you've never published on 16 And you can't tell me what type of talc O. talc, anything like that? that was produced, whether it was industrial talc, 18 A. No. cosmetic talc or something else, right? Other than, you know, looking at it so A. Correct. I don't know. There's no 19 Q. 19 20 you'd be able to identify minerals, have you ever done record. We found it in a guidebook, thought it'd be a any examination or testing of talc? good experience for the students. 22 22 Other than just looking at it for -- as Q. And other than that visit, you've 23 far as learning the details of the mineral, no. certainly never been to a talc mine that is currently 24 Have you ever been to a talc mine? undergoing operation, correct? 25 Yes, in California. There's this mine in 25 A. Correct. Page 47 Page 49 1 Darwin. So Darwin was this area in California on the Have you ever published anything 2 south side of Joshua Tree, and there's asbestos all over 2 regarding amphiboles? 3 the place, and the mine closed -- if I remember I'm trying to think. My master's thesis 4 had -- there were amphiboles in those bentonites. Aside 4 correctly, the mine closed, like, in the '50s. So it 5 might have been, you know, the mine that was -- where 5 from that, I don't think so, or if I did, it was not a 6 things were sourced from when the Italian mines were not major component. Not memorable. around or, you know, the World War II era. And other than what you recall in your 8 thesis, you've never done any testing of amphiboles or But, yeah, I went there with Brian 9 Currie, and we do a field trip to Death Valley and the 9 anything of that nature? 10 10 surrounding areas all the time. So, yes, I've been to I'm trying to -- well, I have nothing 11 at least that talc mine, and I've been on several -published, but I have ran across -- so I've done -- you 12 I've been on field trips to, like, metamorphic terrains know, I have several. I have many projects with 13 in New England states, but I can't remember if I saw students, and some of those projects, for example, I talc there or not. I have not physically been to the think I -- there were minerals that I would identify in Vermont mines, but, yes, I've been to a talc mine. the TEM as amphibole for the coke formation, which was 16 So you just made the statement that this kind of unusual. So the coke formation is a local 17 mine in Darwin, you know, may have been during World War bedrock. 18 II, where they -- I'm looking at the thing -- where they 18 O. Okay. source talc from. That's just a guess by you, correct? 19 19 So but nothing -- nothing in the A. Correct. As I said, it may have been. 20 peer-review literature, and I don't even know if it was 21 But the region, as I understand thinking about that mentioned in the abstract. I do remember occasionally 22 field trip, you know, I may be foggy, but there's other running across amphiboles. It's amazing what you'll 23 talc mines in the area. But, yeah, there was asbestos find in the TEM. There's all kind of crazy stuff if you 24 in that. 24 look for it. Yeah.

25

Okay. But, again, I just want to clarify

25

And I think we covered this before, but

1

6

12

15

- you've never done any testing of talcum powder orover-the-counter cosmetic products, right?
- 3 A. No.
- 4 Q. Before you were contacted by plaintiffs'
- 5 attorneys in -- it sounds like about December, give or
- 6 take, of 2017, had you ever done any research regarding
- 7 talc, talcum powder, anything of that nature?
- 8 A. No.
- 9 Q. And had you ever done any research prior
- 10 to being contacted about the mining practices at talc
- 11 mines or looking at the geological mine deposits?
- 12 A. I'm sorry. A research on, on talc
- 13 mining?
- Q. Exactly. Talc-mining practices.
- 15 A. Specifically? No.
- Q. Okay. Well, what about the geology of
- 17 the specific -- you know, did you ever look at the
- 18 specific geology of any talc mines prior to being
- 19 engaged in this case?
- A. I took a metamorphic course, and during
- 21 my master's, under Craig Dietsch, I remember we talked
- 22 about talc in that class. So Craig is a metamorphic
- 23 petrologist. So -- and then, you know, my -- I've read
- 24 papers. I mean, all through my Ph.D., my advisor
- 25 hammered that I should read everything around the topic.

- Page 52

 Q. And you certainly have never written any
- ² opinions regarding talc, talc mining practices, you
- 3 know, et cetera, before getting engaged in this case and
- 4 the other case from Waters & Kraus, right?
- A. Correct.
 - MS. SCOTT: Objection.
- ⁷ BY MR. FROST:
- Q. On your CV, I know you notice you have a
- 9 patent for something called asbestos containment
- 10 composition.
- 11 A. Yes.
 - O. What is that?
- A. It's a mixture of clay minerals.
- Q. And what's the patent?
 - A. Basically, it's a mixture of kaolinite
- ¹⁶ and montmorillonite, if I recall. Essentially, it's one
- we produced but didn't really pursue. It was actually
- 18 my brother-in-law thought it would be a good idea. So
- ¹⁹ but, yeah.
- Q. So it's patented but not in production or
- 21 use?
- A. Right. And I don't regard patents as
- 23 peer-review literature. Those are -- that's a
- 24 different.
 - Q. Yeah. I actually agree with you on that

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Page 51

- 1 So -- but I've not -- I haven't mapped a talc deposit,
- 2 for example.
- Q. So I guess the best way to put it, and
- 4 you can correct me if I'm wrong, but it sounds like
- 5 you've read papers about talc deposits and all other
- 6 types of deposits.
- 7 A. That's in my training.
- 8 Q. But you never did any specific research
- 9 narrowing down on talc deposits, specifically?
- A. Correct. I have no peer-review
- 11 literature on talc.
- Q. Have you ever attended any conferences
- 13 that talk about talc mining or specific, you know, talc
- 14 mine geology?
- A. I've attended several clay minerals
- 16 society meetings periodically throughout my career. I
- 17 haven't attended any in a few years. I don't remember
- 18 their names, but, you know, I remember seeing some stuff
- 19 on talc, nothing specific. I was always focused on
- 20 either the bentonites or palygorskite/sepiolite.
- Q. Okay. So there might -- you know, these various conferences, talc might have been a topic, but
- various conferences, tale might have been a topic, but
- 23 it wasn't something you were there to concentrate on or
- 24 to talk about?
- A. Correct.

1 one.

8

16

- 2 A. Yeah.
- Q. I was just -- I couldn't find the
- ⁴ patents, so I was wondering what it was.
 - A. Oh, surprise.
- Q. All right. If you want to open your
- 7 report to page -- it's Exhibit 1 in front of you.
 - A. Okay.
- 9 Q. To page 45. Do you have a summary of the
- 10 opinions you're rendering in this case?
- 11 A. Okay.
- Q. And in looking at one through five there,
 - are those the five opinions that you believe are
- supported by the report?
- MS. SCOTT: Objection.
 - A. Yeah, I believe these are, these are my
- 17 opinions. That's the -- essentially, these are the
- 18 summary of those opinions.
- 19 BY MR. FROST:
- Q. Okay. And these fairly reflect the
- 21 opinions you intend to offer in this case? There's
- nothing else that you can think of that you're going to
- 23 opine about?
- A. With respect to this report, correct.
 - Q. And then I note in the addendum report,

2 well.

Q.

A.

Q.

A.

O.

in your possession?

literature.

I thought you were done.

3

11

- 1 there's not an additional opinion given. I think the
- 2 report states that it supports the opinions given in the
- 3 preliminary report; is that correct?
- 4 A. Let me look.
- 5 Q. That's Exhibit 2. I believe the quote is
- 6 that "it supports and further enhances my opinions
- outlined in the original report"?
- A. Correct, yeah.
- 9 Q. So you agree with me there are no new
- 10 opinions in the addendum report. It's just additional
- 11 support for the five opinions you plan to render in this
- 12 case?
- A. There's no new opinions. The silver --
- 14 there's new data, but, yeah, there's no new opinions.
- 15 It's the addendum supports the first.
- Q. And I take it you haven't published this
- 17 report or published these opinions anywhere, have you?
- A. Absolutely not.
- Q. Do you intend to publish them?
- 20 A. No.
- Q. Do you intend to publish any of the
- 22 research you've done with relation to this report?
- 23 A. No
- Q. Did anybody help you do any of the, the
- ²⁵ research underlying the report?

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I'll call sort of new or independent research in

Q. Did you spend any time doing any, what

addition to things you've already done in the past to

1 but I had read those during my dissertation time as

I'm sorry. I didn't mean to cut you off.

So I'm familiar with a broad range of

Did you have to go out and do any

searches for new literature that you didn't already have

A. We got some materials from -- or I got

some materials from the library, and there were some

things like Gy were things I knew of and Finkelstein were things I knew of that had been discussed either in

my classes or I ran across it previously that I had to

Did you go --

So I was -- I'm sorry.

- addition to things you've already done in the past to
- 21 prepare your report?
- A. I don't understand the question. In the
- 23 sense that?

go re-get.

- Q. For example, did you spend any time in a
- research library trying to find all the articles about

Page 55

A. No.

1

7

- Q. So all the opinions and all the analysis
- 3 in the original report and the addendum report, you
- 4 know, are all things that you've researched yourself and
- 5 are solely your opinion and your --
- 6 A. Yep.
 - Q. -- based on your work. Okay.
- 8 So you have, I believe it's a couple
- 9 boxes, right, of stuff on the ground that are articles
- 10 and textbooks? How did you actually go about selecting
- 11 the literature you were going to review in this case?
- 12 A. The stuff outside?
- Q. Yes, the stuff outside the documents.
- A. So I was informed by, you know, really,
- 15 the core of my Ph.D. So I had a class on crystal
- 16 chemistry and phyllosilicates, and basically, I was
- 17 expected to read and learn things. And so my collection
- 18 of books is, in part, from that effort. And then, also,
- 19 I teach classes regularly, so I'm familiar with the
- 20 books that I use in those classes and then, also, citing
- 21 things for research.
- So I had a master's student who did a
- 23 thesis on New Caledonia, which has talc and asbestos and
- 24 other things. So, essentially, you know, the Brinley
- 25 papers were an example of, you know, those came back up,

- 1 the different geological deposits at issue in this case?
- 2 A. No. My opinion, the knowledge set I had
- 3 generated over decades was appropriate reference point.
- 4 So I didn't, I didn't look at, you know, French
- ⁵ literature, Chinese or Russian literature, for example.
- 6 Q. Do you agree with me that the standard
- ⁷ for rendering your opinions in peer-reviewed literature
- $^{\, 8} \,$ is different than the standard for rendering opinions in
- 9 litigation cases?

1.0

- MS. SCOTT: Objection.
- 11 A. That's a -- sort of a complex question.
- 12 Can I talk about?
- 13 BY MS. SCOTT:
- 14 O. Sure.
- A. So industrial mineral companies, margins
 - 6 are not great. So, basically, the profits are not
- great. So, you know, there's not -- well, I should back
- 18 up. Industrial mineral companies, other mineral
- 19 companies, they rely on peer-review literature for their
- 20 analytical standards and practices. So, essentially,
- peer-review literature is kind of part of that. They
- don't -- mineral companies don't necessarily talk to
- each other. There are, like, societies, so there's a
- 24 clay mineral society. I think there's a zeolite
- society. But the sort of industrial secrets or the

- 1 details and methods, you know, everyone's afraid that
- 2 they're going to get ripped off from someone else. So
- 3 peer-review literature is a sort of common ground that
- 4 everyone uses.
- 5 I guess I'll ask the question a different 6 way.
- 7 A. Okay.
- 8 O. Because it was about, sort of, the
- 9 standard for opinions. Do you believe that the standard
- 10 of review for an opinion, you know, such as in the
- 11 expert report you've given in this case, is the same or
- 12 different than the standard review if you were trying to
- publish a peer-reviewed article on the same subject?
- 14 MS. SCOTT: I'm going to object and ask
- 15 him not to speculate on your initial question in
- 16 any legal standards.
- 17 Yeah. I am -- as I -- I'm not familiar
- 18 with legal review.
- 19 BY MS. SCOTT:
- 20 Q. Do you believe the -- when you were
- writing the report, do you believe that the opinions in
- 22 this report, you know, would meet or be sufficient for
- peer-review publication?

1 don't want to speculate.

2 BY MS. SCOTT:

A.

11 deposits, so, yes.

24 MS. SCOTT: Objection.

Correct.

25 A. I don't want -- I'm not an editor. I 1 regarded that metamorphic rock, metamorphic terrains

Page 60

- 2 take a long time to form. So pressure temperature
- 3 loops, and this is well documented in the geologic
- 4 literature. You know, it's in the classwork that I've
- 5 had.
- 6 Would you agree with me that some talc
- deposits form -- you know, the formation of talc
- deposits, some take a lot longer, some take a lot
- shorter, depending upon the characteristics of the
- formation?

12

21

- 11 MS. SCOTT: Objection.
 - A. I'm not gonna speculate without data.
- But, you know, generally it's accepted that talc
- deposits take several millions of years to form.
- BY MR. FROST:
- 16 Q. What's your basis of that opinion?
- 17 A. My classwork.
 - Can you tell me what factors affect the Q.
- formation of talc, what the controlling factors of
- metamorphism would be?
 - A. Heat and pressure and fluids.
- 22 Would you agree with me that not all talc
- 23 is formed with the exact same amount of heat, pressure
- and fluids in the mix?
- 25 There is variability. A.

Page 59

- Page 61 Q. Would you agree with me that not all talc
- 2 deposits are geologically the same?
- MS. SCOTT: Objection.
- Q. That's fine. Turning in to your report. 4 Start at page 2. So you state that "Talc is a mineral A. I don't think any -- every rock and every
- 5 derived almost exclusively from metamorphic deposits," geologic deposit has its own history, so one of the big
 - 6 things that's come out in mineralogy is mineralogical
 - 7 evolution. And Bob Hazen's paper talks about this, and
 - there's been several successive papers. So based on
 - that, you know, every deposit has individual
 - characteristics, but there's general sort of groups or
 - 11 classes.

22

12 O. Yes, you can have talc form --

forms through a metamorphic process, right?

13 Developed on. And then you can also have

You also agree with me that not all talc

You can have soils developed on talc

- potential hydrothermal alteration at mid-ocean ridges,
- 15 which is also a metamorphic. It's hydrothermal
- 16 alteration.

6 right?

7

8

9

- 17 You also state further down that the
- process of metamorphism occurs over several tens of 18
- 19 millions of years. Is that always the case?
- 20 A. Generally, that's the case, you know, in
- rocks where you have talc occurring, yes. 21
- 22 Q. Do you think that's true for all talc
- 23 deposits that have formed?
- 24 A. For, you know, the instances of mid-ocean
- 25 ridge, perhaps not, but, essentially, it's generally

- 12 BY MR. FROST:
- 13 Q. And you'd agree with me that not every
- mined deposit of talc is the same either, correct?
- 15 A. It all depends on what you mean by "the
- same." You know, you can have things that are not the 16
- 17 same but very similar.
- 18 Q. Sure. But not every mined deposit is
- going to be exactly the same chemically, geologically.
- They're all going to form in different ways at different
- times. Would you agree with that?
 - A. Unless they are geologically related. So
- you can have two parts. You can have multiple deposits
- in the same geologic terrain that form at approximately
- the same time. Other issues, I mean there's issues with

- $^{\, 1} \,$ geochronology, right? So, you know, age range errors
- 2 can be plus or minus 10 million years. So if you have a
- 3 age of a metamorphic deposit that is talc and the age is
- 4 plus or minus 20 million years, you know, based on the
- 5 available data, that's a reasonable, you know,
- 6 chronometric value.
- 7 Q. Sure. And based upon when it formed, how
- 8 it formed, the pressures, the temperatures, whether or
- 9 not there's variability of that would effect what other
- 10 minerals might be with the talc, right?
- 11 A. Correct.
- Q. And also depending what surrounding rock
- 13 there is to the rock that changed to talc would also,
- 14 you know, affect what might be on the margins of a talc
- 15 deposit, for example?
- A. I'm sorry. The last part of your
- 17 question?
- Q. Sure. So depending what the surrounding
- 19 rock was to the rock that metamorphosed to talc would
- 20 also affect what you would see in the black wall, for
- 21 example, what you see at the boundaries for the talc,
- 22 right?
- A. It can, if there's a reaction or not, so
- 24 it's dependent upon the situation.
- Q. That's what I was going to stay. It's

- A. Yes, it does.
- Q. And that's effectively what we're talking
- 3 about here, is that it's the other minerals that were
- 4 around during the formation of the talc. They may be in

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- 5 the deposit, they may not, and they may be different
- 6 depending on deposits, right?
 - MS. SCOTT: Objection.
- 8 A. I'm sorry. Can you --
- 9 BY MS. SCOTT:

13

- Q. Sure. So you agree with me that not
- 11 every talc deposit is going to have the same exact
- associated other minerals with talc, right?
 - MS. SCOTT: Objection.
- A. It depends, because, I mean, you have --
- 15 so, in mineralogy, we have a term called "perigenesis."
- 16 So essentially, there are -- these common minerals are
- 17 associated with each other. So out of context, for
- 18 example, galena and sphalerite are very commonly
- 9 associated with each other.
- So, essentially, I think a more correct
- 21 way of saying things is that chrysotile asbestos and
- 22 talc are commonly associated with each other. So
- 23 perhaps not all talc deposits have the same mineral
- 24 assemblage, but many of them do have very similar
- mineral assemblages, and that's even when the chemistry

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- 1 variable, and it changes from deposit to deposit? You
- 2 have to look specifically?
- A. That's why every deposit should be
- 4 evaluated with an appropriate core density and high
- 5 sampling density.
- 6 Q. So in order to fully understand what's in
- ⁷ a particular talc deposit, you really do need to know
- 8 how it formed, what was with it when it formed, what's
- 9 around it, things like that, right?
- 10 A. I'm sorry. To understand a talc deposit?
- 11 Q. Yes
- 12 A. At what level or what understanding, what
- 13 context?
- Q. To understand what specifically, you
- 15 know, is associated with that talc, what other minerals
- 16 might be associated with the talc, you really have to
- 17 look at the specific deposit, how it was formed, what
- 18 other constituent minerals were around it, things of
- 19 that nature, correct?
- A. Yes. One should evaluate what is in the
- 21 deposit and what is adjacent to the deposit.
- Q. You also state on page 2, on the next
- 23 paragraph down, that "Talc can have, and commonly does
- 24 have, natural impurities." And that's effectively what
- 25 we're talking about?

- 1 varies.
- ² BY MS. SCOTT:
- Q. And that's what I'm getting to, is just
- 4 because some minerals are associated with talc doesn't
- 5 mean that other mineral is going to be in every single
- 6 talc deposit in the world, right?
 - MS. SCOTT: Objection.
 - A. Correct, but that doesn't mean that's not
- ⁹ very common, either.
- 10 BY MR. FROST:
- Q. Sure. But we're talking about -- you
- 12 agree with my statement that not every single talc
- deposit in the world will have all of the same exact
- 14 accessory minerals associated with it, right?
- MS. SCOTT: Objection. Calls for
- speculation.
- 17 A. Yeah. I don't want to speculate on that.
- 18 BY MR. FROST:

19

- Q. It's not speculation.
- A. Because, you know, there's --
- Q. Isn't it science?
 - A. You know, I go back to the New Caledonia
- 23 example. It has talc, but not every talc deposit has
- 24 New Caledonia assemblages.
- Q. Okay. So the answer to my question would

Filed 06/17/19 Page 19 of 86 PageID: Page 66 Page 68 1 be yes, right, that not every single talc deposit has 1 chrysotile. 2 the exact same accessory minerals associated with it? 2 BY MR. FROST: 3 MS. SCOTT: Objection. Q. So as an expert in geology, you can't 4 Correct. 4 tell me as a fact, sitting here today, that there are 5 BY MR. FROST: some talc deposits that are exist in the world that are comprised of more talc than others? 6 Q. And you also agree with me that -- I'm going to use the word, you know, "pure," to mean more MS. SCOTT: Objection. Asked and 8 talc, but there are some talc deposits that are more

- 9 pure than other talc deposits. There's some talc
- 10 deposits that are comprised of more talc than others,
- 11 correct?
- 12 MS. SCOTT: Objection.
- 13 A. It's -- so it's speculative. I don't
- 14 know exactly what you mean by "pure." So it's been
- 15 known, for example, that at the atomic level, you can
- 16 have intergrowths with chrysotile with talc. So, yeah.
- 17 I'm really not quite sure how to answer that question.
- 18 BY MR. FROST:
- 19 Q. So you have no opinion that if I were to
- 20 go find a talc deposit over here and find one over here,
- 21 that one might have -- be comprised of more talc or have
- a more pure metamorphism of the talc than another?
- 23 MS. SCOTT: Objection.
- 24 Without any priority knowledge -- yeah.
- 25 I would want to -- to answer that question correctly,

- answered.
- A. I think I answered that, yeah. There's
- some that have a higher percentage of talc, but there's
- 11 impurities that also occur. So, you know, if you have
- 12 10 percent asbestos in one mine and 2 percent asbestos
- 13 in one and 30 percent in another, so, yes, that's,
- 14 that's possible.
- 15 BY MR. FROST:
- 16 Q. I don't think you're understanding my
- question. More fundamentally, don't you agree with me
- some talc deposits are only made up of 20 percent talc
- and are predominantly other minerals, as were other talc
- deposits are made up of, for example, 50 or 60 percent
- 21 talc?
- 22 A. So I'm unclear. Are you talking about
- 23 talc deposits or talc ores?
- 24 Q. I'm talking about talc deposits,
- generally, geological formations of talc.

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- 1 you need to analyze each individual deposit.
- 2 BY MR. FROST:
- Q. As an expert in geology, you can't tell
- 4 me that there are some deposits of talc in the world
- 5 that are more pure than others, that are more comprised
- 6 of talc than others?
- MS. SCOTT: Objection.
- 8 A. One would expect -- you know, so
- 9 materials are variable in percentages, but I don't think
- 10 it's reasonable just to declare -- I mean, it seems like
- 11 a -- perhaps I'm misinterpreting it, but it seems like a
- 12 arbitrary setup or question. So the -- one cannot --
- 13 what I'm trying to say is one cannot predict the exact
- 14 impurities in any given deposit.
- There are general -- using the
- 16 peer-reviewed literature and well documented, you know,
- work of archives going back, for example, Hess, 1933,
- 18 you know, it is common and reasonable to know that
- 19 there's some, or very, very likely, asbestos materials
- 20 are associated with talc.
- And so it is reasonable that -- it's a
- 22 reasonable, scientifically reasonable interpretation
- 23 that one would expect impurities of many types, but they
- 24 may not be the same. So we have examples where there's
- 25 tremolite, and there's examples where there's

A. So, yeah. Talc can occur at a variable

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- concentration in metamorphic rocks.
- You will also agree with me that some
- 4 talc deposits can be larger than others, right,
- geologically?
- A.
- O. You'll agree with me that talc is sort of
- all over the place and what are the mine deposits are
- sort of unique?
- No. Talc is not all over the place. 10
- Metamorphic rocks comprise approximately 10 percent or
- so of rocks exposed at the surface of the earth, and so
- talc, by that definition alone, talc is not all over the
- 14 place.
- 15 Q. You'd agree with me talc can be found
- from Quebec to Georgia, for example? 16
- 17 I think that's a very general in, perhaps
- 18 in consumers' homes, in baby powder bottles. The --
 - You don't think there are talc formations
- 20 found in the Appalachian Mountains from Quebec through
- Georgia?

19

- A. There --
- 23 MS. SCOTT: Objection.
- 2.4 There are other talc deposits in North
- 25 America, yes. They're not restricted to Vermont, but

Page 70 Page 72 1 talc deposits do occur. 1 but you can have minerals that have fibrous habits that 2 BY MR. FROST: 2 are not microscopic. 3 Q. And talc deposits occur in places like So an example would be millerite, which 4 Alabama, Texas, Minnesota, California? You'll agree 4 is a nickel sulfide that, essentially, you have these with me on that as well, right? very long black fibers, and it's very commonly -- that's 5 6 A. I remember some of the specifics in the 6 what it occurs as. And the fiber -- fibrous textures, 7 Southern states. I know they occur in California. you know, essentially, all morphologies are driven by 8 Q. Will you agree with me that some talc the unit cell and, essentially, bonding strengths and deposits are larger than others? defect densities and things like that. So fibers are 9 MS. SCOTT: Objection. 10 common in asbestiform materials. 11 A. Yes. You can have small talc deposits. 11 O. Is a fibrous habit different than the 12 You can have big talc deposits. You can have -- they're 12 asbestiform habit? 13 13 just like granites. You can have small granites and So a fiber would be more of a subset of 14 large granites. You can have -- you know, a variation asbestiform. So if I had a chunk of chrysotile, that 15 in size and scale and complexity is a very common trait would be asbestiform, and it would be composed of 16 in geologic terrains. 16 fibers. BY MR. FROST: 17 O. So fibers are a smaller subset of 18 Q. You'd agree with me because of variations 18 asbestiform? 19 in size, scale, complexity, accessory minerals, et 19 A. Generally. cetera, you can't make general statements about talc 20 Can you define for me what "asbestiform O. deposits. Not every talc deposit's the same, right? habit" means? Are you able to define what "asbestiform 22 MS. SCOTT: Objection. habit" means without referencing your report? 23 23 A. To some level, I think one can. You can Asbestiform basically is --24 make general statements about rock types, what is common Q. Here, could we do it this way? Without 25 or likely to occur. If we were able to precisely looking at your report, can you define for me what Page 71 Page 73 1 predict just by thought the distribution of ore, we "asbestiform" means? 2 would have no problem finding platinum and gold and MS. SCOTT: Objection. If he needs to 3 those kinds of things, right? So does that answer the 3 look at his report, he can look at his report. question? MR. FROST: Well, I just want to see if 5 O. Sure. he can do it without looking at the report. 6 THE WITNESS: Can we take a break? BY MR. FROST: 7 MR. FROST: Sure. Q. But if you need to look at your report, 8 VIDEOGRAPHER: We are now going off just let me know that you have to look at your report to 9 9 record, and the time is 10:48. define it. 10 10 (A recess was taken from 10:48 to 11:03.) MS. SCOTT: Objection. 11 VIDEOGRAPHER: We are now back on record, 11 A. Asbestiform essentially is a texture that 12 12 is -- the particles are elongated. They have a high and the time is 11:03. 13 BY MR. FROST: general aspect ratio. Q. Would you describe for me what a "fibrous 14 BY MR. FROST: 15 15 habit" means? Q. So asbestiform is purely a texture? 16 A. In general, it is an elongated particle 16 MS. O'DELL: Object to the form. 17 that -- and the -- so on page 4, I indicate there's 17 A texture with respect to what? A. 18 length or width ratios for fibers which have fibrous 18 BY MR. FROST: habit of three to one, and then NIOSH is five to one. 19 Well, that's what you just said. That's what I'm trying to figure out. You used the word 20 BY MR. FROST: 21 Q. Okay. Can you define for me what a "texture." You defined asbestiform as a texture? "fibrous habit" means? Does it purely mean dimensions 22 A. So texture is a general term that means 23 of three to one to five to one? 23 the size, shape and distribution of mineral particles. 24 A. So in the general context of mineralogy, 24 Is that different than the morphology? 25 25 fiber can -- it's actually a little bit of a loose term, A. Morphology generally refers to a crystal

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- 1 or single phase.
- 2 Q. What do you mean by that, the "single phase"? 3
- 4 A. Single phase, phase is like a -- phase is
- 5 a thermodynamic term. So, in theory, it is something
- 6 that is separable from a system. So you can have
- something like chrysocolla that is grown around and fill
- 8 some other mineral, where you can have glass. Glass is
- 9 a separate phase. Or it can also be a mineral, so it's
- 10 more of just a thermodynamic term.
- 11 Q. Do you agree with me that in order for a
- 12 mineral to be asbestiform, it has to grow in an
- asbestiform habit?
- 14 MS. SCOTT: Objection.
- 15 A. No. So talc is mechanically soft, and I
- 16 can certainly imagine scenarios where you have
- 17 tremolite, large tremolite crystals that exist in a talc
- 18 schist, and that talc schist then experiences continued
- 19 dynamic metamorphism, so things move, and that talc
- 20 crystal can be -- other talc -- or, I'm sorry, the
- 21 tremolite crystal in the talc can then hit other talc or
- 22 other tremolite crystals and essentially abrade and
- 23 grind and be broken down into smaller elongate, elongate
- 24 mineral particles which would be fibrous, and that would
- 25 be one way of producing that texture.
- Page 75

- 1 BY MR. FROST:
- Q. Is that different than growing in an
- 3 asbestiform habit? In order to be asbestiform, do you
- 4 have to grow in the asbestiform habit?
- 5 MS. SCOTT: Objection.
- A. There's not necessarily -- mineral growth
- 7 would not necessarily be a part of that.
- BY MR. FROST: 8
- 9 Q. So mineral growth has nothing to do with
- whether or not a mineral is asbestiform? 10
- 11 MS. SCOTT: Objection.
- 12 A. I think there's a false dilemma. You
- 13 know, as I described, so you can have that, you know, a
- 14 nice, happy actinolite or tremolite crystal. Stress is
- 15 applied during metamorphism and that then breaks apart
- 16 and you can end up with material that is -- that meets
- 17 the definition of a fiber.
- 18 BY MR. FROST:
- 19 Q. So as far as you're concerned, all fibers 20 are asbestiform?
- 21 MS. SCOTT: Objection.
- A. No. My mineral, one of the minerals I'm 22
- 23 an expert in, palygorskite/sepiolite, often the
- 24 individual crystals are referred to as fibers.
- 25

- 1 BY MR. FROST:
- Q. If you look at page 4 of your report,
- second paragraph, under "Asbestos," you write that
- 4 "Asbestiform refers to a mineral that has grown into a
- ⁵ fibrous aggregate of long, thin flexible crystals that
- 6 readily separate into smaller crystals of a" smaller
- 7 "length-to-width aspect ratio." You agree with me
- that's very different than what you just told me, right?
 - MS. SCOTT: Objection. You just misread
- 10 something. It says, "smaller crystals of a 11 similar length."
- 12 MR. FROST: Oh, I apologize.
 - MS. SCOTT: No problem.
- 14 So I think that's a correct statement.
- 15 BY MR. FROST:

9

13

- 16 Q. Which one, the one in your report or the
- one you just gave me?
 - MS. SCOTT: Objection.
- 19 Both. A.
- 20 BY MR. FROST:
- 21 You think you can, a mineral can both
- grow as you have here in a fibrous aggregate of long or
- you can create it?
 - It can -- it can result from the process. A.
- 25 So in the broad context, if you are crushing or milling
 - Page 77
- 1 a talc ore and there's tremolite in it, basically, you
- 2 can process that, it's my expert opinion, that you can
- 3 process that and result in producing asbestiform
- materials or fibers, elongated mineral particles.
- 5 So are all elongated mineral particles O.
- asbestiform?
- A. I'm sorry. I misspoke. Not necessarily,
- 8 no.

16

- 9 Okay. Why don't we look at -- well,
- first off, do you have any studies or research that you
- rely on to support your opinion that you can change
- something that grew prismatic into something that's now
 - asbestiform?
 - A. So I think it's reasonable, based on my
- 15 knowledge of crystal chemistry.
 - Q. You can't point me to a single
- peer-reviewed study or NIOSH or anything else that has
- ever supported this opinion?
 - MS. SCOTT: Objection.
- 20 A. So I was taught by Steve Guggenheim that
- you can reduce particle size, and when you reduce
- particle size in minerals, essentially, that is driven
- by cleavage. So basically every mineral has a unit
- cell, and that is definition of the elements that are
- unique to that mineral and a specific arrangement.

Filed 06/17/19 Page 22 of 86 PageID: Document Mark Page 78 Page 80 1 And, essentially, the nature of bonds in 1 particular particle is asbestiform or a cleavage 2 that mineral will be weaker along certain planes for 2 fragment, and your answer to that was cleavage fragments 3 certain minerals such as amphiboles. So basically what 3 implies that through some mechanism process, it's been 4 happens is when you apply stress, it doesn't matter if 4 developed. That's what I'm asking. What is this mechanism process? Is this an outside force? Are you 5 that is a five-foot piece of tremolite or if it is a 6 micron piece of tremolite. Essentially, it's absolutely talking about processing --7 reasonable that if you apply stress and you break that, A. Mechanical. 8 it will break into smaller pieces, and you can end up You're talking about mechanics. So if a fragment cleaves off because a mechanical force is 9 with -- essentially, the hat or the shape is the same. 10 Or, essentially, hat or shape is driven by those applied to it, it's a cleavage fragment? If it occurs, 11 crystallographic parameters. if it naturally cleaves, then it's asbestiform? 12 BY MR. FROST: 12 MS. SCOTT: Objection. 13 13 All right. Do you know what a cleavage A. You can have, as I mentioned before, you 14 fragment is? can have the situations totally reasonable, both in the 15 A. Yeah. It's essentially a fragment that processing and then the natural geologic process, where 16 has broken off. you can have a tremolite crystal, for example, that 17 And you're telling me that cleavage essentially is deformed through metamorphic processes. 18 fragments can be asbestiform that have broken off as You can have multiple directions of force, and so, 19 prismatic crystals? basically, you can end up with particles that are 20 asbestiform as a result of that, and then you can grind, A. I think they can, so they can. They can 21 meet the crystallographic requirements. crush, process things that also have an asbestiform 22 Is your opinion generally accepted by the 22 texture. 23 scientific community? BY MR. FROST: A. I have not presented or published on 24 Are there any standards you're relying on 25 that, but I think, based on my experience and what I to make this determination of asbestiform versus Page 79 Page 81 1 know about crystal chemistry of minerals, that is a 1 cleavage fragment? 2 ² reasonable interpretation. MS. SCOTT: Objection. Q. Okay. So your interpretation is that a I'm using the terminology as described in 4 my mineralogy class that I took from Dr. John Grover in 4 particle can become asbestiform, even if it didn't form 5 naturally in an asbestiform habit by this cleaving down 5 1991, and he -- he grew some of the artificial, 6 to a particular particle size? Is that a fair summary? 6 synthetic fibers for the rat tests in the '70s. BY MR. FROST: 7 MS. O'DELL: Object to the form. 8 You, through processing, you can modify Q. Okay. Other than this class you had with A. 9 many things. 9 Dr. John Grover, you can't name me another source, 10 BY MR. FROST: another peer-reviewed literature, a scientific paper 11 Q. So can you tell me what particular that supports your theory? 12 12 properties will determine whether or not a particle was MS. SCOTT: Objection to form. a cleavage fragment versus an asbestiform fragment? 13 MR. LAPINSKI: I was going to say, make

14 MS. SCOTT: Objection.

15 A. Cleavage fragment implies that it has, 16 through some mechanical process, it's been developed. 17 BY MR. FROST:

18 Q. So a cleavage fragment purely refers to 19 some outside mechanical process?

20 MS. SCOTT: Objection.

21 What do you mean by "purely"?

23

22 BY MR. FROST:

24 what your definition is. So I asked you, you know, what

That's what I'm trying to figure out,

25 the properties are that will determine whether or not a

14 sure you let him ask the full question before 15 you start to answer.

THE WITNESS: Okay. I'm sorry.

17 BY MR. FROST:

16

18

O. Do you want me to reask it?

19 The terms were used in my graduate school 20 classes as well. I think that -- yeah.

21 And your opinion is whether or not this fragment that breaks off, whether or not it's

asbestiform or cleavage doesn't have anything to do with the way in which the particle originally formed?

25 MS. SCOTT: Objection.

Page 82 Page 84 1 So crystallographically, in a way, the 1 high aspect ratio, (length/diameter ratio), increased ² mechanical properties, flexibility and durability. ² term's not necessarily extremely relevant. It is the ³ physicality of a particle is such that, you know, it's "In the asbestiform morphology, the 4 driven by, essentially, the science. So you can crush, 4 crystals grew by forming long and filiform fibers. 5 you can grind something, and you can end up with an 5 These fibers are found in bundles that can easily 6 asbestiform particle. 6 separate into smaller fibers (fibrals), which, during MR. FROST: Let me look at some articles. processes, retain their surface and activity properties. 8 I'm going to mark this as -- I believe, we're at "OSHA (1992) specifies that the 9 Exhibit 3. asbestiform criterion does not depend on the crystalline 10 (Exhibit 3 was marked for 10 structure but on how the crystal grows or its 11 identification.) 11 crystalline formation. When pressure is applied to" an asbestiform "fiber, it will bend rather than break." 12 BY MR. FROST: Did I read that correctly? 13 Do you recognize this paper? 14 14 A. No, I do not. I have not seen this MS. SCOTT: With one correction. 15 MR. FROST: I did miss one? 15 report. 16 This is not the IRSST 2010 Montreal paper 16 MS. SCOTT: Asbestos fiber, not 17 you reference in your report? 17 asbestiform fiber. 18 18 A. I don't remember. MR. FROST: Oh, I apologize. BY MR. FROST: 19 O. Look at your -- let me see. I want to 19 20 find a place that you reference this. If you look at 20 Q. Did I read that -- other than that, did I Footnote 5 on page 4. read this correctly? 21 22 I don't see a Footnote 5 on page 4. 22 A. Okay. Yeah. A. 23 23 Q. Do you agree with me this definition is Of your report. O. 24 MS. SCOTT: Of your report. very different than the definition you've given me? 25 Oh, I'm sorry. Okay. Yeah. 25 MS. SCOTT: Objection. Page 83 Page 85 1 BY MR. FROST: A. Not necessarily. It is more specific, 2 ² but it's, you know, generally in line. Do you agree that this is the same report ³ BY MR. FROST: that you have referenced in Footnote 5 on your paper? Q. Generally in line. Doesn't the IRSST paper specifically state that an asbestiform crystal has 5 0. Have you ever read this report before? 6 A. I think so. to grow into that structure to be asbestiform? 7 It says that, but again --And this is something --A. Q. 8 8 You disagree with that? A. I'm tired. 9 9 Q. And this is something you rely on MS. SCOTT: Objection. otherwise in your paper, correct? 10 It --10 A. 11 I forget the specifics of where I've 11 BY MR. FROST: 12 12 cited it. Q. It's okay. You can disagree with it. 13 13 If you turn to page 10, please. In my -- it's permissive, not exclusive. Q. A. 14 MS. SCOTT: Of the report or of the --So I - I --MR. FROST: Of the paper, the IRSST 15 15 Q. I don't -- where does it say it's 16 permissive, not exclusive? Is that in this paper? 16 paper. 17 17 A. No. My class terminology might not be A. Page 10. 18 BY MR. FROST: 18 consistent with this. 19 19 So it's Section 5.1.2, "Asbestiform." Okay. Let's look at another one. What 20 Okay. exhibit are we on? Four? I would like to mark this as A. It states, "The term 'asbestiform; refers Exhibit 4. I'll give you a copy. 22 to a morphology originating from the natural 22 MR. FROST: Are we not on four? 23 23 crystallization of a mineral into small crystals, into MS. SCOTT: I think it's five. ²⁴ hair-like fibers (unidimensional). This morphology 24 MR. FROST: Are we on five? I thought we 25 gives the mineral-specific characteristics, including a 25 were on five, too.

Page 86 1 MS. SCOTT: I think we're on five. 1 that are related to the crystal structure and are always 2 2 parallel to crystal faces." That's in line with what MR. FROST: Okay. Yeah. I was going to 3 you've described, right, for cleaving? say maybe we can keep track. 4 VIDEOGRAPHER: I'm keeping track, but the That statement is not correct. 5 last one you just gave him, you said three. Q. It's not correct? 6 MR. FROST: Oh, okay. So I guess we are You can have cleavage that is, has a 7 on 4. We'll mark this whatever the next exhibit variety of degree as a perfection to it. 8 Q. And, again, do you have -- can you cite is. 9 (Exhibit 4 was marked for me a study that you're relying on for that opinion? 10 identification.) A. I can probably point to a book, but it's 11 BY MR. FROST: something that is -- I mean, it's taught in mineralogy, 12 introduction to mineralogy. You have different levels Q. Take a look at it. Have you ever seen 13 this paper before? of perfection of cleavage. So, for example, micas are 14 I'm not sure. I immediately don't see it said to be perfect in cleavage, and a lot of the amphiboles are said to be good but not necessarily 15 in the reference list. 16 I can tell you, it's not on your 16 perfect. Q. 17 And, actually, you can see in this SEM reference list. 18 A. image, there's all kinds of irregularities on the Okay. Yeah. I have not seen this 19 surface. And on this particular SEM image, it's before. 20 extremely bright. The contrast is wrong. It's not --Q. Have you ever heard of Dr. William J. Campbell? 21 you know, you can't tell what is on that right end of 22 the image that is the tremolite particle there. No, I have not. 23 23 O. You'd agree with me that this is a report Q. I'll stop you here. I'm confused because 24 from the United States Department of the Interior, your problem with the definition appears to be the word 25 Bureau of Mines? "perfect," which doesn't actually appear in the Page 87 Page 89 A. 1 definition. But you generally agree that a cleavage 1 Yes. ² fragment is a cleave along a generally parallel plane of You'd agree with me that they are a Q. ³ a crystalline structure, right? 3 reliable source --So this is from 1977? A. Yes. 5 Yes. You'd agree with me that the Bureau 0. Okay. If you continue along, it says, O. 6 of Mines is a reliable source of information for "Minerals" -geological term -- geological --It says "with perfect cleavage." A. 8 8 I am somewhat hesitant's to make a Q. That's in the next, you know, paragraph. 9 generalization of any organization being extremely 9 A. I'm sorry. I got confused. 10 reliable or not. It depends on the individual. But, 10 So it talks a little bit, you know, about 11 generally, many things that have been produced are it. It talks about amphiboles, et cetera. What I'm 12 reliable. This document is from 1977, which is sort of concerned is the next paragraph down. It starts, 13 the end of the heyday of asbestos production. So right "However, because they did not grow as fibers, they 14 around this time, essentially, it was coming to light cannot have characteristics of fibers. Consequently, 15 that asbestos really did have a lot of hazards cleavage fragments cannot be called fibers." 16 associated with it. 16 Do you see where the Bureau of Mines has 17 17 Q. Can you please turn to page 30 of this said that? 18 report? Specifically, there's a the paragraph, it's 18 MS. SCOTT: Object to form. called "Cleavage Fragment." Do you see where I'm 19 A. So it's my professional opinion that talking about? 20 20 that's inaccurate. I mean, the crystallographic -- you 21 A. know, from the materials aspect of things, whether Yes. 22 Okay. If you go down to the second -- I something has grown or not, you know, doesn't -- it 23 can read the first few on, but -- I'll read all of it really doesn't matter too much as far as what it is. So ²⁴ for clarity. "Cleavage fragment: A fragment produced and -- and so, "However, because they did not grow as 25 by the breaking of crystals in" direct -- in "directions ²⁵ fibers, they cannot have characteristics of fibers."

Filed 06/17/19 Page 25 of 86 PageID: er, Ph.D. Document Mark Page 90 Page 92 1 Well, you know, if you can cleave or process something, 1 Yes, I believe this is what's cited in 2 roll it such that, you know, you get particle size 2 the report. This is the 2010 IARC. 3 reduction, and that particle size is then, matches, Can you please turn to page 277? If you 4 although perhaps there is disagreement on what 4 look at the bottom paragraph, it says, "Asbestos is a 5 asbestiform is, but it matches what a fiber is, then 5 commercial term that describes six minerals that occur 6 that's --6 in the asbestiform habit: Actinolite, anthophyllite, 7 BY MR. FROST: ⁷ chrysotile, grunerite, riebeckite and tremolite (IARC, Q. But, again, you can't point me to a 8 1977). Similarly to talc, these six minerals occur more 9 single study or peer-reviewed piece of literature that commonly in a non-asbestiform habit and may also be 10 supports your opinion, correct? elongated without being asbestiform." And then if you 11 MS. SCOTT: Objection. follow down, it says, "when asbestiform, they constitute 12 A. I think it's -- I think it's a very much asbestos and, when not asbestiform, they are referred to 13 a reasonable interpretation. It's almost too basic, in as mineral fragments or cleavage fragments." 14 a way. I mean, if we know -- we're taught, actually, at So, again, here, IARC is talking about 15 the introductory level, that minerals cleavage is the 15 how the crystal forms or how it grows to distinguish 16 first things we teach, and essentially cleavage is an asbestiform versus cleavage fragment, correct? 17 MS. SCOTT: Objection. 17 interval property of a given mineral, and then you can 18 reduce it, and that's why minerals, when you crush a 18 So you're saying as it forms? A. 19 mineral, you actually, you have sort of the same general 19 BY MR. FROST: 20 kind of particle shape. So you take mica, for example, 20 Q. Yes. 21 21 and you crush it and you get a particle size reduction, So mechanical processes can be how a A. 22 and a lot of that is happening along the cleavage mineral is formed or how a texture is developed. 23 23 planes. So I think --So you're saying the cleave of a 24 BY MR. FROST: 25 Q. So that's what I established. So you that crystal forms? Page 91 Page 93 1 think IRSST is wrong. You think the Bureau of Mines is No. You said how a mineral -- what did A. wrong, right? 2 you say? 3 MS. SCOTT: Objection. Yes, that's what I said is how a mineral 4 BY MR. FROST: 4 forms. This is what they're saying: A mineral can Q. Why don't we look at the World Health 5 form --6 Organization? A. So --7 MR. FROST: This is -- I'll mark this as O. -- an asbestiform habit or not. 8 Exhibit 5. 8 -- form is not growth. Form is not 9 growth. MS. O'DELL: Monograph 93. 9 MR. FROST: Yes, it's Monograph 93. 10 10 Okay. Fine. It's saying here that how a 11 11 crystal grows or develops determines whether or not it's Sorry. 12 12 is a mineral fragment or asbestiform, correct? (Exhibit 5 was marked for 13 13 MS. SCOTT: Objection. identification.) MS. O'DELL: Object to the form. 14 A. So this would be IARC 2010. 14 15 15 MR. FROST: Does anyone need a copy or "When asbestiform, they constitute

- 16 pull it up on your computer?
- 17 MS. SCOTT: Yeah.
- 18 MR. FROST: That's a better way to look 19 at it.
- 20 MR. FERGUSON: I'll take one, Jack, if 21 you've got an extra one.
- 22 MR. FROST: I do.
- 23 MR. FERGUSON: Lighten your load.
- 24 BY MR. FROST:
- 25 Are you familiar with this publication?

prismatic crystal can considered the morphology of how

asbestos, and when not asbestiform, they are referred to as mineral fragments or cleavage fragments." That's how they are referred to. But I don't see anything in here about growth. There's nothing about precipitating out 20 of a solution. There's nothing precipitating out of a melt. There's nothing precipitating from some

- 22 mineralogical transformation. So -- and, again, you
- 23 know --

- 24 BY MR. FROST:
 - But, again, I just want to go back.

Filed 06/17/19 Page 26 of 86 PageID: er, Ph.D. Document Mark Page 94 Page 96 1 A. -- cleavage --1 question. 2 MR. LAPINSKI: Let him finish his answer. -- activity --A. 3 MR. FROST: Sure. Q. Let me ask you a question. Let me ask 4 Whether something is a cleavage or you the question without reading from the thing, because 5 fragment or not, it can be -- it can match the you're reading the phonetics, which aren't actually the 6 dimensions of something that is defined by NIOSH or question I'm asking. other things. It can be 1 micron by 3 microns or it can A. Okay. I'm sorry. 8 be 1 micron by 5 microns. So I don't -- the -- you O. What properties, other than size, will 9 know. But this, this doesn't seem to -- you keep tell you whether or not a particle is a cleavage fragment versus an asbestiform fiber? 10 implying that there has to be growth for the mineral to 11 occur, but it's not -- apparently, in here, it doesn't, 11 A. What properties other than size? 12 12 it doesn't make that stipulation. I guess size truly -- is that what 13 Grinding, grinding can be one method, and determines whether or not a particle is asbestiform 14 then deformation. We have other examples where, versus a cleavage fragment, in your opinion? 15 essentially, textures are developed from deformation, MS. SCOTT: Objection. 16 meteorite impacts. We have metamorphic rocks. We can 16 A. It's a major, a major factor in it. But, 17 have, essentially, high temperature or high pressure you know, you can have things that are large that are 18 metamorphic rocks that have one form of quartz in them. asbestiform as well. So hand samples, images in --19 Then when they get exhumed, essentially, they shatter 19 Okay. Can you answer my question? Is it 20 the granite around them and create a different texture. a major component or is that the difference? And if 21 So I don't, I don't think that growth is there's more than just size, what are the other things 22 necessarily related to -- I think, in my professional you look at to determine whether or not a particle is a 23 opinion, it's not related to the generation of cleavage cleavage fragment versus an asbestiform fiber? 24 fragments, and it's my professional opinion that 24 MS. SCOTT: Objection. He is answering 25 cleavage fragments can have asbestiform materials. 25 your question. Go ahead, Doctor. Page 95 Page 97 The other thing that confuses things is 1 BY MR. FROST: 1 2 you can have a cleavage fragment that's a meter, right? Q. I don't understand how telling me the ³ You can -- you can have large crystals. You can go out 3 size of giant pattern, giant rocks that are grabbed from 4 to the South Dakota mines and pick up a spodumene, hit 4 somewhere else. What I want to know are what properties 5 it with a hammer. That's a cleavage fragment. Because 5 do you look at when you're trying to determine if it's 6 we have these same atomic laws, essentially, you get the 6 an asbestiform fiber versus a cleavage fragment? Is it 7 same type of effects into the small particle ranges. just the size of the mineral with -- you know, the 8 So now I'll go back to the same question aspect ratio of the mineral? Is that purely what 9 I asked before you couldn't answer, and that was, other determines, in your opinion, whether a particle is 10 than size, other than this whole idea of aspect ratio, 10 asbestiform versus cleavage? 11 what other differences can you tell me there is between 11 That and the texture. A. 12 What do you mean by "texture"? What 12 an asbestiform fiber and a cleavage fragment? Is it 13 truly just size, in your opinion, that makes something properties are you looking at in the texture?

- 14 asbestiform? 15 MS. SCOTT: Object to the form of the 16 question. You can answer.
- 17 BY MR. FROST:
- 18 Q. It's an easy enough question. I'll ask 19 it a different way if you want.
- 20 A. I'm a slow reader. Sorry. What 21 differences can you tell me there is between asbestiform
- 22 fiber around achieve advantage fragment -- a cleavage
- 23 fragment. So if you're talking about just differences
- 24 in general --
- 25 Well, no. That's why. Let me ask you a

- The texture is how -- is the size, shape
- and distribution of materials.
 - So, again, we're talking about size,
- shape and distribution. These are the only -- these are
- the aspects --

- 19 A. I get that from -- I'm sorry.
- 20 I was going to say, size, shape and
- distribution are the attributes you look at to determine
- whether or not a particle is asbestiform versus
- cleavage? 23
- 24 A. A spatial distribution is not necessarily
- 25 size and shape.

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- 1 Q. What do you mean by "spatial
- distribution," then?
- 3 The occurrence of it in a sample or A. 4 substrate.
- 5 What do you mean by "occurrence of it in Q.
- a sample or substrate"? 6
- The placement of it. So, essentially, we
- can have a lithology onto which, relative to that, an
- 9 asbestiform material occurs.
- 10 What do you mean by lithology upon which
- 11 an asbestiform material occurs?
- 12 Lithology is a general term for a type of
- 13 rock. It's a very general term for a type of rock.
- 14 Okay. So, effectively, you're saying the
- 15 type of rock it is and the size and shape of the
- particle determine whether or not it's asbestiform?
- Those are the three considerations you look at?
- 18 A. Well, so, not necessarily, but, you know,
- 19 I'm talking about hand sample size.
- 20 Okay. And this is -- and what about --
- and what about micron size, when you're looking at a 21
- particle that's micron size?
- 23 Aspect ratio is important. I think that
- 24 and -- so to identify a fiber or a cleavage fragment, to
- 25 thoroughly identify things, one should generally do,

- 1 between a cleavage fragment and an asbestiform fiber?
- 2 Q. Yes.
- 3 A. A cleavage fragment can be a subset of
- asbestiform fibers.
- So you're telling me there's no
- 6 difference between a cleavage fragment and asbestiform
- fiber if it's --
- A. No.

10

- Q. -- if they're the same size?
- If it's --
- 11 MS. SCOTT: Let him finish.
- 12 BY MR. FROST:
- 13 Q. If they meet whatever aspect ratio
- definition you want to put on it, as far as you're
- concerned, any cleavage fragment that meets that
- definition is an asbestiform fiber?
- 17 MS. SCOTT: Objection.
- 18 Speculative in that I don't -- you know, A.
- 19 I don't --
- 20 BY MR. FROST:
- 21 Q. It's not speculative. I'm asking for
- your definition. 22
- 23 A. I'm sorry. I have an incomplete thought.
- 24 A cleavage fragment can be a subset of -- it can be a
- subset of an asbestiform fiber.

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1

8

- 1 should do TEM work. And in order for that data to be
- 2 interpreted, to identify the aspect ratio and also what
- 3 the material is, you need to do imaging electron
- 4 diffraction and electron microscopy.
- Q. Okay. I fear you're not understanding my
- 6 question. I'm not -- I want to know what the difference
- 7 is between an asbestiform particle and a cleavage
- 8 fragment. Is it purely the aspect ratio and the type of
- 9 rock it's generated from, in your opinion?
- 10 MS. SCOTT: Objection.
- 11 A. I'm sorry. I'm having difficulty
- 12 describing it. I thought I described it. I thought I
- 13 answered.
- 14 BY MR. FROST:
- 15 Q. What you keep saying is you keep telling
- 16 me is that aspect ratio is a major component. Is it the
- 17 only component? Are there others? We've heard the type
- 18 of rock. Are there any other things you would look at
- 19 to tell me these are the properties of an asbestiform
- 20 fiber versus these are the properties of a cleavage
- 21 fragment? I'm just asking for simple mineralogic
- 22 definition here of what's the difference between a
- 23 cleavage fragment and an asbestiform fiber. If it's
- 24 rock type and aspect ratio, that's fine.
- So, okay. So what's the difference 25

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How? Like how do you -- so what -- okay.

- Based on the size and the dimensions that
- are provided in the paragraph in page 4.
- Q. Okay. So it's purely size and dimension
- is what determines whether or not a cleavage fragment is
- a subset of asbestiform?
- A. Correct.
 - That's your opinion?
- 9 MS. SCOTT: Objection.
- 10 With respect to only my -- so I think
- some of our confusion is is I'm talking about minerals
- in general, so things, you know, you would see in a
- museum. And then there's, essentially, the microscopic
- scale.

- 15 BY MR. FROST:
- 16 Q. Okay. So there's a -- how you define
- asbestiform is different depending on whether or not
- it's a hand sample versus something you look at in a
- 19 microscope?
- 20 A. Potentially, and things can, you know,
- 21 appear to be asbestiform, but they are pseudomorphs.
 - Q. Okay. So other than size, which we've
- 23 now determined is aspect ratio, you can't tell me any
- other properties that you would look at to determine
- whether or not a particle, an elongated mineral

- 1 particle, is a cleavage fragment versus an asbestiform
- 2 fragment. Is that -- is that a fair summary of your
- 3 opinion?
- 4 A. I'm unsure. I'm sorry. I'm tired.
- 5 The -- if it -- so the -- so in your question, mineral
- 6 type doesn't matter, correct?
 - Q. I don't know. I'm asking you how you
- 8 define. Does mineral type matter for asbestiform versus
- 9 non-asbestiform?
- 10 A. Well, there are minerals that tend to be
- 11 asbestiform or can be asbestiform and not. So, but
- 12 that's not necessarily related to the -- asbestiform is
- 13 a descriptor of the minerals, not necessarily -- so I
- 14 would use what, what I have in the report, basically. I
- would say that a cleavage fragment can be an asbestiform
- 16 particle and size. The aspect ratio is a major
- 17 contributor.
- Also, the -- you know, if it is a -- so,
- 19 for example, if the chemistry and the electron
- 20 diffraction data and the images also indicate that it is
- a mineral that is known to be asbestos, I think that
- 22 that would be -- that would support that.
- I think that, you know, if you had --
- 24 it's like kyanite, for example, might -- kyanite might
- 25 have -- meet those dimension, fiber-dimension

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- 1 first, it has to be of a rock that could be asbestiform,
- 2 and then the major component is the size, meaning aspect
- ³ ratio. Is that a fair summary of the definition you're
- 4 giving me?
- 5 A. I'm not sure. I'm sorry. I'm spacing
- 6 out a little bit. A cleavage fragment can be
- 7 asbestiform.
 - Q. Okay. But what I keep asking you is --
- 9 A. The criteria?
- O Q. The criteria you're using to define
- 11 something as asbestiform, is it purely rock type, that
- 12 is, a type of rock that can be asbestiform?
- 13 A. I--

15

- Q. Hold on. That's one.
 - A. Okay.
- Q. And then the other, which is the major
- 17 component, is the size, meaning the aspect ratio of the
- 18 particle. Are those the two things you look at when
- 19 you're determining whether or not a particle is an
- 20 asbestiform fiber?
- A. I would sort of correct myself in saying
- 22 the particle size and the mineralogy.
- Q. Okay. Particle size and mineralogy. And
- 24 mineralogy, meaning the type of mineral it is, correct?

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25 A. Yes.

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- 1 requirements, but because it is kyanite, it wouldn't
- 2 necessarily be described as asbestiform, but it would be
- 3 a fiber. So there's complexities.
- Q. Okay. So I think we have -- I'll change
- 5 my summary of your opinion. So in determining whether
- 6 or not an elongated mineral particle, and we can agree
- 7 an elongated mineral particle is a particle that, you
- 8 know, broke off of something that's long, right? Can we
- 9 agree on that?
- 10 A. Yes.
- Q. Okay. So in order to determine if an
- 12 elongated mineral particle is a cleavage fragment or
- 13 asbestiform fiber, the two things you look at are,
- 14 first, whether or not it's a rock that can be
- 15 asbestiform, and then, second, which is the major
- 16 component, is its size, meaning aspect ratio. Is that a
- 17 fair summary of your opinion?
- A. Well, so that's a different question. So
- 19 elongated mineral particle --
- Q. Then if elongated mineral particle's
- 21 confusing you, I'll take that out.
- So if we're trying to figure out if a
- 23 particle -- I don't care what size, I don't care if it's
- $24\,\,$ elongated or not. If we're trying to figure out if a
- 25 particle is a cleavage fragment or an asbestiform fiber,

- Q. Okay. And, again, the basis of your
- 2 opinion that that's the definition of asbestiform comes
- 3 from your coursework and undergraduate and graduate,
- 4 correct?
 - A. Yes.
- 6 Q. And sitting here today, you can't cite me
- 7 a single study in the peer-reviewed literature or from
- 8 any government organization that supports that theory,
- 9 correct?
- 10 MS. SCOTT: Objection.
- 11 MS. O'DELL: Objection. Form.
- 12 A. So --
- 13 BY MR. FROST:
- Q. I'm just asking for citations.
- MR. LAPINSKI: Let him finish.
- 16 A. I cannot -- I cannot -- let me think how
- 17 to phrase this. Peer review, I have had discussions,
- 18 actually, with my -- a former committee member, Bill
- 10 actually, with my -- a former committee member, bin
- 19 Mull. He was on my Ph.D. committee, and we had several
- 20 discussions about impurities and things like that and
- 21 industrial minerals. He was an industry guy.
- And, basically, we talked about small
- particles breaking off and how that could be of concern in different ways. And then I've had discussions in
- 25 industry about, essentially, fine particles getting

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	entrained in things with another company, one based here		definition, according to the paragraph?
	in Cincinnati, not basically asbestiform, not basically	2	A. I'm just saying that's what they define
3	asbestos, but there's graphite and biotite.	3	those as.
4	So no peer-review literature, but I've	4	Q. Do you believe you've included the whole
5	had discussions in a general sense, but not specific to	5	definition that ATSDR has of asbestos in your paper?
6	talc, but with contaminants, small particles breaking.	6	MS. SCOTT: Objection.
7	Q. So the basis	7	A. I believe it's consistent with a document
8	A. So I think companies sometimes use	8	I've done. I was gonna say, there are other academic
9	different it's actually common for companies to use	9	classifications. Sometimes I know, in my classwork, it
10	different words. They have internal vocabularies, even,	10	was discussed like antigorite sometimes comes up.
11	you know, so that might be the issue.	11	Antigorite is actually something that's detected in some
12	BY MR. FROST:	12	of the documents as well. So antigorite can be, look
13	Q. So it's based off your coursework and	13	like it's asbestos, but it's not officially classified.
14	discussions with industry individuals but not any	14	So there's some con if you look in the
15	peer-reviewed literature?	15	older literature, there's some confusion. People will
16	MS. SCOTT: Objection.	16	also refer to other minerals, perhaps incorrectly, as
17	A. Yes. Correct.	17	being asbestos. So it's historically, I think it can
18	BY MR. FROST:	18	be a term that is applied either too loosely or things
19	Q. All right. We're going to move to	19	just haven't worked out, so
20	another definition. Okay?	20	BY MR. FROST:
21	A. Okay.	21	Q. And the definition of asbestos in the
22	Q. I note in your report let me find	22	ATSDR, is that something you found yourself or was that
23	where it is. At the top, under the section that says	23	given to you by plaintiffs' counsel?
24	"Asbestos" on page 4. Second sentence, you say,	24	MS. SCOTT: Objection.
25	"Asbestos is a naturally occurring mineral that can be	25	A. I looked at ATSDR is something that
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1	_	1	_
	in close proximity to talc in mines around the world."		I've used in the past for my publications in general, so
2	in close proximity to talc in mines around the world." Is asbestos a mineral?	2	I've used in the past for my publications in general, so I'm familiar with them. So we use that in a variety of
3	in close proximity to talc in mines around the world." Is asbestos a mineral? A. I'm sorry. It should be mineral group.	3	I've used in the past for my publications in general, so I'm familiar with them. So we use that in a variety of ways to help frame our discussions in peer-review
2 3 4	in close proximity to talc in mines around the world." Is asbestos a mineral? A. I'm sorry. It should be mineral group. Q. Okay. That was going to be my next	3 4	I've used in the past for my publications in general, so I'm familiar with them. So we use that in a variety of ways to help frame our discussions in peer-review articles and things like that.
2 3 4 5	in close proximity to talc in mines around the world." Is asbestos a mineral? A. I'm sorry. It should be mineral group. Q. Okay. That was going to be my next question. Asbestos is a defined group of minerals,	2 3 4 5	I've used in the past for my publications in general, so I'm familiar with them. So we use that in a variety of ways to help frame our discussions in peer-review articles and things like that. BY MR. FROST:
2 3 4 5 6	in close proximity to talc in mines around the world." Is asbestos a mineral? A. I'm sorry. It should be mineral group. Q. Okay. That was going to be my next question. Asbestos is a defined group of minerals, correct?	2 3 4 5 6	I've used in the past for my publications in general, so I'm familiar with them. So we use that in a variety of ways to help frame our discussions in peer-review articles and things like that. BY MR. FROST: Q. All right. I'm going to mark this next
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Page 110 Page 112 1 Okay. Turn to -- actually, it's page 1. 1 statement. ² It's a misnomer. It's decently into it, probably about 2 MR. FROST: Sure. ³ 10 or 15 pages into it. As I said, the one is a MS. SCOTT: Go ahead. 4 misnomer. Okay. BY MR. FROST: 5 MS. SCOTT: I have a --Q. Do you see the second highlighted portion 6 6 on that page? It starts at the bottom. "Asbestos MR. FROST: Yeah. I was going to say, I 7 apologize for it being highlighted, but I'm minerals consist of thin, separable fibers that have a 8 going to read the highlighted parts anyway, so parallel arrangement. Nonfibrous forms of tremolite, 9 it will help guide us there. That was a actinolite and anthophyllite are found naturally. 10 printing issue. 10 However, because they are not fibrous, they are not 11 BY MR. FROST: classified as an asbestos mineral." That's different 12 Q. Do you see where it defines, under than what you're telling us here, correct? Section 1.1, "What is Asbestos"? 13 13 A. Let me compare. 14 Yes, I do. 14 Well, that's what you just told us, that 15 you could have nonfibrous tremolite and it would still O. Do you notice that its definition of 16 asbestos are "the fibrous varieties of tremolite, be asbestos. actinolite and anthophyllite that occur naturally in the A. I'm sorry. What was the question again? environment"? 18 18 This is not consistent with what I have written? 19 MS. SCOTT: Objection. 19 I'm saying it's not consistent with what 20 you just told me. You just told me the fibers doesn't 20 A. I see that, yeah. 21 BY MR. FROST: really matter because you can have --22 That's slightly different than what you 22 A. Fibers --23 23 attribute the definition of asbestos from the ATSDR in So my question is: You're relying on -your report, right? You don't note that it's the 24 say you rely on the ATSDR as the definition for 25 fibrous varieties of the amosite, crocidolite, 25 asbestos, but your definition of asbestos, sitting here Page 111 Page 113 1 actinolite, anthophyllite and tremolite, correct? 1 today, is actually different than that of the ATSDR. So 2 Let me just double-check. 2 it doesn't really support what you're saying today, 3 Q. It's page 4. 3 correct? In two general classes. I omitted the MS. SCOTT: Objection. Misrepresents. word "fibrous," but it seems that the minerals are No. I think that is a misrepresentation. 6 consistent. 6 So I cited this, and the minerals are listed here are 7 the same minerals there. O. Yeah, the minerals are consistent, but isn't the omission of "fibrous" an important distinction BY MR. FROST: 9 Okay. 9 in the definition of what's asbestos and what isn't? Q. 10 MS. SCOTT: Objection. 10 A. And then, based on my academic 11 A. In the context of this situation, I 11 experience, knowledge, these minerals are also, you 12 don't -- I don't think it exclusively applies because know, what I would list as well. 13 you can mechanically produce particles that are -- meet Q. But that's not -- you didn't say they say 14 the criteria on the bottom of the last paragraph on page that certain types of these minerals can be asbestos. 15 4. So tremolite -- and actually, you know, on one hand, The definition that you attribute, and you're talking 16 IARC 2012 lists tremolite as a carcinogen in general. today about asbestos, is different than the -- you say 17 So IARC is not -- I was consistent, but you're correct. the ATSDR supports your definition of asbestos, but 18 I did not use the word "fibrous." yours is actually slightly different than theirs, right? 19 19 BY MR. FROST: MS. SCOTT: Objection. Misrepresents. 20 20 Q. So you're not consistent, because you're A. I left out a word. 21 saying ATSDR defines asbestos, and then you need to put 21 BY MR. FROST: 22 them out. But you fail to leave out that these are 22 Q. And according to them, it's an important 23 fibrous. I'll tell you why it's important. Do you see 23 word, because as the ATSDR says, "Because they are not 24 the second highlighted portion? 24 fibrous, they are not classified as asbestos minerals." 25 MS. SCOTT: Let me just object to the Do you agree?

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1 1	Page 114		Page 116
1	3		morphology can have potentially dangerous health
2		2	
3	21 111111110011	3	A. Yes, I say those documents.
4	C .	4	Q. Okay. Let's look at the NIOSH road map.
5		5	MR. FROST: Did you mark that yet?
6	the I don't know. What sentence is it? Third	6	(Exhibit 7 was marked for
7	sentence starts, "However, non-asbestiform cleavage	7	identification.)
8	particles can correspond to the definition of respirable	8	BY MR. FROST:
9	fiber as defined by WHO and, due to its morphology, can	9	Q. Do you recognize this as the NIOSH
10	have potentially dangerous health effects." Do you see	10	document that you were relying on for your statement?
11	that?	11	MS. SCOTT: Jack, can you, just for my
12	A. Yes.	12	ease, can you direct me to the citation within
13	Q. Now, you don't have an opinion yourself	13	the report?
14	as to whether or not asbestiform can cause any disease.	14	MR. FROST: That I'm going to go to?
15	You're not a doctor, right?	15	MS. SCOTT: Yeah.
16	A. Correct.	16	MR. FROST: I'm going to page 5, or V,
17	Q. And you're relying on, you know, other	17	which is the Executive Summary.
18	documents and things you've read for that statement?	18	MS. O'DELL: Thank you. You're talking
19	That's correct?	19	about in the NIOSH document?
20	A. Correct.	20	MR. FROST: Oh, in his?
21	Q. Do you have any opinion on whether or not	21	MS. O'DELL: Yes.
22	the surface chemistries of cleavage fragments versus	22	MR. FROST: It's on page 4, third
23	asbestiform fibers are the same?	23	paragraph down from Asbestos. It's NIOSH 2010,
24	A. I'm not a surface geochemist.	24	IRSST 2012.
25	Q. Okay. Do you agree with me that IARC has	25	MS. SCOTT: Thank you.
	D 115		D 117
	Page 115		Page 117
	ultimately determined that non-asbestiform cleavage	1	A. I'm not seeing it in my list.
	fragments actually are not or do not sorry. Let me	2	BT WHETHOST.
3	reform that.	3	O 37/11 1 D 4 C 1 1 4 C
	C-11		Q. Well, yeah. But if you look at page 4 of
4	could no also agree that I I i co has	4	your report, you cite to NIOSH 2012 for the proposition
5	determined that non-asbestiform minerals are not	4 5	your report, you cite to NIOSH 2012 for the proposition that
5	determined that non-asbestiform minerals are not carcinogenic?	4 5 6	your report, you cite to NIOSH 2012 for the proposition that A. Wait. Okay.
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4 5 6 7 8	determined that non-asbestiform minerals are not carcinogenic? MS. SCOTT: Objection. A. I believe IARC 2012 lists tremolite as a	4 5 6 7 8	your report, you cite to NIOSH 2012 for the proposition that A. Wait. Okay. Q non-asbestiform cleavage fragments can have the same potentially dangerous health effects. If
4 5 6 7 8	determined that non-asbestiform minerals are not carcinogenic? MS. SCOTT: Objection. A. I believe IARC 2012 lists tremolite as a carcinogen.	4 5 6 7 8 9	your report, you cite to NIOSH 2012 for the proposition that A. Wait. Okay. Q non-asbestiform cleavage fragments can have the same potentially dangerous health effects. If you turn to page V, "Executive Summary."
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Page 118 Page 120 1 that -- NIOSH is not supporting the position you have in 1 indicated, I thought there might be typos in the report. 2 your paper here, correct? NIOSH's determination is that 2 Okay. What's the typo? 3 they can't make one. More research is necessary, right? So, essentially, the difference should be MS. SCOTT: Objection. 4 diversity. Talc forms in the earth in metamorphic 5 A. That is what's stated here. ⁵ terranes, and the diversity is metamorphosed mafic and 6 BY MR. FROST: 6 ultramafic rock deposits show the complexity of talc 7 Q. Let's turn back to the IRSST document. I ores at different levels. 8 forget what we marked that as. I think it's 4. There O. Okay. And --9 it is. If you can turn to page 37. 9 A. Sorry about that. 10 A. Okay. 10 That's okay. Typos happens. 11 Q. And, again, at the top nine 11 Your support for that is Berg 1977? 12 recommendations, it states, Since a conclusion cannot be 12 Yes. A. 13 13 reached about the biological effects from the Q. I'll mark Berg. 14 distinction between a cleavage fragment and asbestos 14 It's e.g., Berg, so that's an example. 15 Yes. Well, look at the one example you 15 fibers -- actually, I did not read that correctly. Let Q. 16 me try again. 16 pointed to. 17 17 "Since a conclusion cannot be reached MR. FROST: Let me see if I can find a 18 about the biological effects from the distinction 18 copy. Let me see if I can find a copy where the 19 between cleavage fragments and asbestos fibers," and 19 staple hasn't come out. We'll mark that one. 20 then it continues to say precautionary things. So, 20 Do you all need one? 21 again, they also haven't determined, as you state in 21 MS. SCOTT: Sure. 22 your report, that it has the same dangerous health 22 MR. FROST: Be careful of the staple. 23 23 effects, correct? It's pokey. 24 MS. SCOTT: Objection. Scope. 24 MS. SCOTT: I appreciate that. 25 25 A. It says what it says. (Exhibit 8 was marked for Page 119 Page 121 1 BY MR. FROST: identification.) Q. Yes. They come to the same conclusion as ² BY MR. FROST: ³ NIOSH, and that's, we don't know one way or the other. Q. Do we agree this is the Berg '77 you 4 More research needs to be done, right? reference in your report? 5 Correct. 5 A. I'm not a hundred percent sure. Other than these two, can you point me It also appears, if you look at 18 --7 right now to any other studies that actually support the MS. O'DELL: Excuse me, Doctor. Are you 8 sentence you have here in your report that cleavage finished? Did you finish with your answer? 9 fragments are the same, have the same dangerous health A. I'm not sure. So either I might have 10 effects as asbestiform fibers? misquoted something. Let's see. I don't think I -- I 11 11 don't think I have it. Let me --A. No. 12 Q. All right. If we move down, further down 12 BY MR. FROST: 13 to page 4 of your report, the section called "Formation 13 Q. We can look at it during a break. We can of Talc deposits and inherent asbestos impurities." 14 come back. 15 15 A. Okay. A. I'll check. Berg had several. 16 The first sentence, "Talc forms in the 16 I believe it's number 18. O. 17 17 earth in metamorphic terranes, and the difference is So I am not a hundred percent sure. I 18 metamorphosed" -- I apologize. Can tell me how to 18 might have misquoted --19 19 pronounce that word? O. Okay. 20 20 Metamorphosed. -- this. Because, as I remember the Metamorphosed. Okay. "And the book, it was -- I honestly don't think I --22 difference in metamorphosed mafic and ultramafic rock 22 O. Looked different? 23 deposits show the complexity of talc ores at different 23 Yeah. It was -- yeah. I think I've 24 levels." 24 looked at some of this before. It looks familiar, but

I'm sorry. That's a typo. As I

25

25 the thing that I'm thinking, I think I misquoted. I'm

Page 122 Page 124 1 sorry. 1 think --2 If I were to tell you that talc isn't 2 You certainly didn't include it in the Q. Q. 3 even mentioned in this paper --3 report, right? MS. SCOTT: Objection. Yeah. I mean, there's like -- the book I 5 had, there's images of mines that talks about, I think, 5 A. I don't know. I forget. 6 the Yellowstone mines, specifically. So I'm sorry about THE WITNESS: Can we take a break? 6 that. I totally, totally missed that. 7 MR. FROST: Sure. Q. Okay. If we move down to the next 8 VIDEOGRAPHER: We're now going off 9 sentence, you state that "Italian mines, which Johnson & 9 record. The time is 12:21. 10 10 Johnson and Imerys obtained talc for cosmetic (A recess was taken from 12:21 to 1:25.) 11 production, were ultramafic origin." 11 VIDEOGRAPHER: We're now back on record. 12 12 A. The time is 1:25. Okay. 13 13 BY MR. FROST: O. Is that true? 14 I believe so. 14 Q. All right. Welcome back from lunch. We were on page 4 of your report under "Formations of 15 O. Can we turn back to the IARC 2010? It's 16 the one with the orange cover. Go to page 283 to 84. Talc." And we talked about Italy. Let's move on to 17 Vermont. You say, "Vermont mines relevant to this A. Okay. 18 If you look at B, towards the bottom, it litigation are mafic and ultramafic origins." What's Q. 19 says, "Talc derived from magnesium carbonites." your support for that statement? 20 20 Okay. I'm sorry. Oh, bottom of 4? 21 21 O. "Talc deposits formed from the alteration Yeah, bottom of 4, moving on to 5. 22 of carbonite and sandy carbonite, such as dolomite and 22 A. It's the geology of the area. 23 23 limestone, are the most important in terms of world Do you believe there are mafic formations 24 production. Two types are recognized." And if you skip 24 of talc relevant to the Vermont mines used by Johnson & Johnson and Imerys in this case? 25 down to two, it says, "Those derived from hydrothermal Page 123 Page 125 1 alteration (including retrograde metamorphism) of A. Yes. 2 regionally *metamorphosed siliceous dolomites and other Q. And do you have a geological survey or 3 magnesium-rich rocks." And then if you turn the page something else you're relying on for that? 4 over one, two, three, it says "Italy vouches own after A. There are USGS reports and things like 5 that." that. 6 A. So this is information produced by And they say mafic? They don't just say Q. 7 Luzenac? it's an ultramafic belt? 8 Q. Well, this is from IARC. A. I believe so. 9 It's in IARC, but they're citing Luzenac On page 5, kick down to the next 10 as part of this, and each -- the occurrences of each paragraph, the one that starts, "Asbestos minerals, 11 individual mine are -- location are not shown. IARC is including chrysotile, tremolite and actinolite" -- I'm 12 more of a health thing. I would not necessarily expect sorry, "tremolite, actinolite and anthophyllite are 13 a detailed analysis of a geology from an IARC monograph. common in talc ores." What's your basis for the 14 So... statement, because it's uncited? 15 15 Q. Can you point to me to any geological A. It's common knowledge --16 study that shows --16 O. Can you point me to a --17 MR. LAPINSKI: Counsel, let him finish 17 A. -- mineralogy. 18 his answer first. 18 Can you point me to a peer-reviewed O. 19 So, I don't think that -- I don't know 19 source that states that? 20 what they are specifically relying on. 20 Let see here. 21 BY MR. FROST: 21 MR. LAPINSKI: Jack, while he's looking, Q. Can you cite me any geological study that 22 22 what was the statement from the report? 23 shows that the Italian mines of Val Chisone were of 23 MR. FROST: It's page 5, the first 24 ultramafic origin? 24 sentence of the first full paragraph. The 25 25 I forget the citations specifically. I "Asbestos minerals, including chrysotile,

Page 126 Page 128 1 tremolite," et cetera. The first full 1 something. That's not actually stated in this book, 2 paragraph. 2 correct? 3 So reference 40, figure 3, is a 3 MS. SCOTT: Object to the form. The diagrams are -- that's how one can 4 comparison I computed with silica activities. So, 4 interpret these diagrams. 5 essentially, it showed boundaries between talc and 6 chrysotile. And figure 2 shows temperature pressure BY MR. FROST: 7 diagrams for chrysotile and talc. Figure 4 shows Q. Okay. So --8 comparison of computer phase equillibrium, experimental The field ---9 data of Johannes, 1969. It shows chrysotile and talc 9 Does it say it's common? 10 MR. LAPINSKI: Counsel, let him finish 10 fields. So the significance of those fields is that 11 because of -- so those are fields where things, when, in 11 his answer, please. 12 MR. FROST: Sure. 12 absolute equillibrium, those discrete phases are set or, essentially, those are the phases that are stable. 13 So, you know, phase diagrams and the 14 The minerals are stable. But you can go interpretation of phase diagrams is something that 15 back, you know, because of geologic conditions are mineralogists and petrologists do all the time, and 16 variable, you can have metamorphism that heats up an basically, we often will refer to a given phase diagram. 17 area or then cools down. You can then -- the geologic People spend their entire lives perfecting phase 18 conditions then can cross those phase boundaries, and diagrams. That was typically in the '50s, '60, '70s and 19 19 you essentially can have minerals that are stable for a '80s. 20 20 while and then revert. But, often, those reversions are So people will actually refer to specific not necessarily complete. And to substantiate that -phase diagrams by people. So one of my committee 22 BY MR. FROST: members, when I was on my Ph.D., he had the best phase 23 O. Can I stop you right there? diagram for quartz for some period of time. So we use 24 A. Yes. those phase diagrams. They're commonly used to 25 Where does Chernoskey say that asbestos interpret mineral associations and assemblages. Page 127 Page 129 1 minerals are common in talc ores? You just told me To further answer the question, the -- I 2 about how, chemically, things form --2 believe it's the Veblen '79. Veblen and Buseck is the 3 The thermodynamic diagram. I'm sorry. A. 3 science paper that shows the TEM associations, you know, 4 Go ahead. 4 essentially, these intergrowths of talc and chrysotile. 5 Yes. You just told me about how 5 And, essentially, that literature proves the --O. 6 chemically talc forms, but where does Chernoskey talk 6 essentially, the interpretation of the assertion I said, about talc ores and relate that asbestos minerals are 7 that you go between these regions that are of one condition and another. You don't necessarily get the 8 common in talc ores? 9 So this is a mineralogical volume, so full conversion because of the kinetics. Essentially, 10 this is a review volume, and basically, talc is a either the reaction goes too fast or things basically 11 mineral that is in talc ores and, therefore, is sort of get frozen in the rock, depending upon the 12 relevant. various conditions. 13 So you're telling me how talc forms, and 13 BY MR. FROST: Q. where on the pressure and temperature scale, you know, Q. Okay. So let's be careful with the 15 it can go back and forth to, you know, tremolite. But, 15 language we're using here. What you're giving me is a generalization about how tale, the mineral, forms, and again, does that, just because something can form in nature, where does it say that asbestos minerals are what other minerals that might be associated with that 18 common in talc ores? What you're telling me -formation. Is that -- is that fair? 19 19 A. Well, these are --I would be hesitant about the word 20 O. -- is scientifically how talc forms. "generalization." I mean, these are experiments. They They're commonly associated take years. A. 22 Okay. But --22 thermodynamically. O. 23 Q. And that says that in that book? 23 And the data, you know, these boundaries,

The diagrams indicate that.

Okay. But this is you interpreting

24

25

A.

people in the '50s, '60s and '70s, I mean, they put a

great deal of effort into establishing the boundaries.

Page 132 Page 130 1 These are relevant for understanding larger processes of MS. SCOTT: Objection. A. 2 metamorphism and understanding, you know, what --2 You can have an ore of talc. The two are 3 essentially what the history of the earth is. So the 3 not -- so go ahead. Proceed. 4 diagrams aren't generalized. They're very, very BY MR. FROST: 5 specific --Q. So where in this book is it specifically 6 6 saying that talc ores, which are ores that have been, That's why I want you to listen very carefully to what I'm asking you. We'll really step you know, talc deposits that have been determined, as you said, to be economically viable, will commonly be back. 9 All right. You agree with me, talc ore associated with chrysotile, tremolite, actinolite, 10 is different than talc, right? Ore means it's the anthophyllite? 11 deposit that is being mined, right? 11 MS. SCOTT: Objection. 12 12 MS. O'DELL: Objection. The mineral constituency --13 13 BY MR. FROST: The mineral talc is a primary --14 14 Q. But listen to the "ore." So, again, you're --15 15 -- is -- minerals make up the talc ore. -- constituent --16 MR. LAPINSKI: Let him answer the 16 So you can't separate -- you can't separate the ore from 17 question, Counsel. the mineral when you're talking about how it's formed. 18 A. So the mineral talc is a primary It's integral. I mean, it's absolutely integral to the 19 constituent of ore, and you can't -ore. You know, it would not be an ore if it didn't have BY MR. FROST: talc in it, right? It wouldn't -- you have to have the 21 Q. And that's why I want you to listen to required constituent in order for it to be an ore. 22 me. I'm talking about ore. Ore means it's a talc 22 So, therefore, you know, every 23 deposit that's being mined, right? You wouldn't find a 23 petrologist in the world, every, you know, mineralogist, 24 piece of talc you found in somebody's backyard and call you know, we refer to these thermodynamic diagrams that 25 it ore, would you? Ore is a definition of a mineral 25 have been worked out for, you know, now, some of them, Page 131 Page 133 1 that's being mined. Do you agree with me there? 1 you know, decades. One was '69 or whatever. So I don't 2 2 think it's -- it's my professional opinion that these MS. SCOTT: Objection. A. Yeah. Ore is not necessarily a mineral. 3 thermodynamic diagrams adequately relate and describe to 4 the mineral phases that occur in talc ore. 4 Ore can be multiple minerals. 5 BY MR. FROST: 5 BY MR. FROST: 6 Sure. But ore is something that's being Q. Okay. So you are making a Q. 7 generalization, based upon the mineral phases, that all mined, right? 8 A. Yes. It's something of economic talc ores --9 9 interest --I would be hesitant to call it a 10 Sure. So in order --10 generalization. I mean, it's --Q. 11 -- as opposed to a primary material of 11 Can I finish my question, sir? A. 12 Yeah. I'm sorry. Sorry. Go ahead. 12 interest. 13 Okay. So in order to be an ore, it has 13 So, again, can you give me a -- can you Q. to be something that's being mined, right? give me a cite that shows that anthophyllite is common 15 MS. SCOTT: Objection. in every talc ore mined across the world? 16 16 MS. SCOTT: Objection. A. No. You can have ores that are not being mined. They're just recognized as ore deposits. I have 17 Where does it say that in the report? a book of ore deposits. 18 "Asbestos minerals, including chrysotile, 19 BY MR. FROST: 19 tremolite and actinolite and anthophyllite are common in 20 talc ores." 20 Q. Okay. It's not this complicated, sir. 21 Just listen to what I'm saying. Talc ore means 21 Are common, yes. You said every talc A. 22 something different than just a tale, you know, deposit, 22 deposit in the world. 23 a talc formation somewhere. A talc ore is something Well, no. Show me where -- show me in 23 24 that has been identified as a mineable source of talc. 24 there where it says that anthophyllite is common in

25 Are we fair on that?

25 every talc ore across the world.

Filed 06/17/19 Page 36 of 86 PageID: er, Ph.D. Document Mark Page 134 Page 136 I think the interpretations of these 1 1 I mean, this is long recognized. 2 thermodynamic diagrams indicate that it's --2 BY MR. FROST: 3 So it's purely theoretical? 3 See, that's why -- I fear you're not Q. 4 No. It's experimental. 4 listening to my questions. My question is: Depending 5 upon the thermodynamics that were in play in creating Q. Okay. 6 Is how the diagrams are designed. And 6 any particular deposit, it will be different. And then, essentially, these are peer-reviewed articles that depending on the differences, you will get different are long-standing. So let me just check that to be mineral crystallization within the phases, correct? MS. SCOTT: Object to the form. sure. Yeah, so there's, you know, these different -- so 10 Berman '88 is kind of one of these benchmark 10 Each situation may be slightly different. 11 thermodynamic databases, and we use these all the time 11 But the -- to the blunt of the major phases, the 12 to understand and predict mineral stabilities and thermodynamics is relevant, and actually, you can tweak -- you know, there's other programs that exist. 13 understand and interpret the environments. 14 So, essentially, through the use of these 14 So, for example, on the igneous field, 15 diagrams over time, we can interpret, you know, the 15 there's a program called MELTS where you can fine tune condition. So whether it's an ore or talc, you know, is your models. And I think things were being in development for these. You know, essentially, similar immaterial, the thermodynamics don't, don't really care. 18 Q. Well, don't you agree with me that types of things exist. There's like geochemist

- 19 depending on the temperature, time and pressure, the 20 constituent rock of any particular deposit is going to be different? I mean, that's what those phrase diagrams 22 say, right?
- 23 MS. SCOTT: Objection.
- A. No. The phase diagrams indicate that 25 things will be stable under different fields.
- Page 137

And that's exactly what I asked you at

1 BY MR. FROST:

That's what I'm talking about. So you'll 3 have -- different minerals are stable under different 4 pressures and temperatures, right? 5 MS. SCOTT: Objection. A. Not -- because of the kinetics,

7 essentially, this lag effect. You know, things are --8 that's not necessarily the case. So diamonds, you know,

9 the classic example that we use in courses, diamonds are

10 thermodynamically stable deep in the earth. They get

11 brought up and then they -- thermodynamically, they

12 should persist. But because of the kinetics in that

13 particular situation, the bonds of the carbon are

14 really, really strong. That diamond doesn't revert to

15 graphite. 16 So, essentially, the thermodynamics gives 17 us a guide. It is a very, very good guide. But when 18 things cross these boundaries, it takes time to 19 essentially equilibrate to the new conditions. And if 20 not enough time evolves geologically, things occur such 21 that you get these relic phases. And in the case of 22 talc ores or talc deposits or whatever you want to call 23 that, you can have essentially these relics or asbestos 24 minerals, chrysotile, for example, that co-occur. So

25 the thermodynamics basically is -- and people know that.

1 the very beginning is these are generalizable tables

workbench and other modeling programs that exist.

but these diagrams are generalizable in the sense that they can be applied to multiple regions throughout

So, yes, you can -- things will change,

- 2 that you can use to predict what's in a particular
- deposit?

Page 135

- A. They're not tables. They're phase
- diagrams.
- Q. Or figures or phase diagrams.

the -- throughout the world.

BY MR. FROST:

- A. Yeah.
- 8 Q. But so we're right back to where I
- started, and that's these are generalization of how
- phases work that you can use to predict what's in
- something, but it's not necessarily saying there is this
- 12 constituent in this particular deposit, correct?
- 13 MS. SCOTT: Objection.
- BY MR. FROST:
- 15 Q. How the phase operated will affect what's in a particular deposit, right? 16
- 17 So it's really the combination of the
- 18 phase diagram. Plus, you know, I keep referring to
- 19 Veblen.

24

- 20 O. Yeah.
- So basically, yeah. So the phase diagram
- 22 is relevant when things are -- assumed to be absolutely
- perfect when everything is in thermodynamic equilibrium.
 - Q.
 - And it is relevant when it's not. When

Page 138 Page 140 1 things are not or when they're moving, things 1 BY MR. FROST: 2 essentially react and progress slowly. But you can have Then you cite Evans 2004 as the basis for 3 incomplete or imperfect reactions as, you know, that statement? 4 illustrated by the one Buseck paper, the '79 paper. A. Yes. 5 Q. So if you want to predict what's in a 5 MR. FROST: Let's mark this. 6 particular deposit, you have to sort of know what the MR. LAPINSKI: What number is this? 6 7 time pressure, the metamorphic history of it, when it VIDEOGRAPHER: Nine. 8 formed, how stable it was, what it started from, what 8 MR. FROST: I told you I'd forget. (Exhibit 9 was marked for 9 the constituent beginning minerals were, you know. Then 10 you can apply that to a phase model? 10 identification.) 11 If you want to predict -- I'm sorry. 11 BY MR. FROST: 12 Yeah. And then you can apply it to the 12 O. Do you recognize this article? 13 phase model, right? 13 A. Yes, I do. 14 A. No. 14 Can you point to me where this article 15 MS. SCOTT: Objection. 15 shows that talc and chrysotile are associated with each 16 A. Well, There's multiple ways of predicting other in deposits? what a deposit would be, and it's scale dependent, phase The thing I was referring to is 18 dependent. It's dependent on the geology, and it's concluding remarks. "Despite an up temperature 19 dependent upon tectonics, as well. So there's many transition from lizardite to chrysotile at these 20 things. So as a mineralogist, you know, one thing that temperatures, the latter remains metastable." 21 21 I would heavily rely on are the phase diagrams. So basically in giving these diagrams, 22 the thermodynamic diagrams, because that metastability, 22 BY MR. FROST: 23 Q. Sure. But you have to know the specific that's the kinetic thing, that's what, essentially, the 24 history of a formation if you want to do an accurate chrysotile would potentially persist. 25 prediction of what's in that particular thing. The Q. Okay. So he's not saying that. You're Page 139 Page 141 1 phase diagrams are one of the things you'd look at, 1 just interpreting that from this article? That's not 2 his conclusion? That's yours? 2 right? 3 MS. SCOTT: Objection. That is the interpretation of the You would use phase diagrams to predict 4 thermodynamic, you know, this article. And I think that 5 potential, potentially what would be in text, because data supports it as does other, you know, these 6 you have this kinetic issue, right. diagrams. 7 BY MR. FROST: Q. What I'm saying is that's not his. 8 Q. Yeah, and that's based upon the geologic That's not Evans' conclusion. That's you interpreting 9 formation, all the other factors that come into how that data within the Evans report, correct? formation was formed, temperature, pressure, time, you 10 MS. SCOTT: Objection. 11 know, all the things that we've talked about, right? 11 Yes, but I'm citing that. 12 A. You can use the phase diagrams. Also if 12 BY MR. FROST: 13 you have bulk chemistry data -- if you have bulk 13 Q. Okay. Let's move on. The next 14 chemistry data, you can use that bulk chemistry data, paragraph, the one that starts "Metamorphic systems." I 15 sort of figure out and do models to see where things believe it's the last sentence. It says, "Reactions can 16 are. So you don't necessarily have to know -- so you also progress for some period and then revert to 17 can, you an model things, and that model would give you asbestiform mineral chrysotile," and it continues 18 some prediction. because it changes. 19 19 Q. If you look at the next sentence, it So, hopefully, you'll agree with me on 20 says, "Talc and chrysotile are associated with each in 20 this one. For it to revert back to chrysotile, it would 21 talc deposits at the micrometer and nanometer scale have to have started as chrysotile, correct? 22 making the separation impossible during the mining and 22 A. So that is a possibility. You can go 23 manufacturing process." Do you see that? 23 from -- that's what the stability fields are all about. 24 A. Yes. 24 So you can start off as chrysotile. You can cross that 25 25 phase boundary, and then it can revert back if the

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- conditions change back. And, actually, we know this in
 metamorphic rocks, that, essentially, the phase
- 3 assemblage can basically go back and forth, back and --
- 4 it can revert. So I'm specifically -- I'm talking about
- 5 reverting on that phase boundary.
- 6 Q. Yes, but it can only revert back to
- 7 chrysotile if it started at chrysotile, right?
- 8 A. So that might be a poor phrasing of the
- 9 word, but essentially it's not an inaccurate phrasing.
- 10~ So when I wrote this, I was thinking of these phase
- 11 diagrams.
- Q. What I'm getting at is, let's say it
- 13 started as, you know, a serpentinite or an anthophyllite
- 14 converted to talc. It's not going to then revert back
- 15 to a different crystal, right? It's not going to --
- 16 it's not going to go from anthophyllite to talc to
- 17 chrysotile?
- A. Based on the geologic history, there's
- 19 multiple pathways. So it won't revert to the same magic
- 20 crystal, if that's what you're implying.
- Q. So the way -- and I agree with you. It's
- 22 very inartfully written here. So you say, "Reactions
- 23 can progress for some period of time and then revert to
- 24 the mineral chrysotile." So the reactions of talc can
- 25 only revert back to chrysotile if that's where they
 - Page 143

- 1 started from, correct?
- 2 MS. O'DELL: Objection to form.
- 3 A. So let me just read the sentence before
- 4 here, because I think -- "Reactions may also be
- 5 incomplete, meaning there may not be enough geologic
- 6 time or other chemical component to drive the reaction
- ⁷ to completion as discussed in Deer, Howie and Zussman.
- 8 Reactions can also progress for some period of time,
- 9 then revert to asbestiform mineral chrysotile because of
- 10 changes in geologic conditions."
- So, in part, I think I'm referring to
- 12 Deer, Howie and Zussman. I don't think I've said
- 13 anything inaccurate there. It's not exclusive to --
- 14 BY MR. FROST:
- Q. I'm trying to clarify --
- 16 A. You know, you can have reactions, you
- 17 know, that's not complete.
- Q. So what I'm getting at, it's a really
- 19 simple question. The reversion won't always be from
- 20 talc to chrysotile, right? It will only revert back to
- 21 chrysotile if that's where it started. Do you agree
- 22 with me there? So while it may be correct that if it
- 23 starts as chrysotile, partially transforms to talc and
- 24 reverts back to chrysotile, that makes sense. But if it
- 25 starts as something else, it's not going to revert to a

- Page 144
- 1 completely new chemical structure of chrysotile,
- 2 correct?
 - A. Correct. Not all the time, yeah.
 - Q. Okay. Thank you. Bear with me a second
- 5 here. Okay. Next paragraph down after you cite the
- 6 various Imerys documents, you said, "A 1977 thesis by
- ⁷ Barry Seymour (JNJ 272469) describes the complex
- $^{\, 8} \,$ mineralogical development of the specific ore." So are
- ⁹ you talking about the specific ore in the Seymour paper
- or are you talking about the specific ore at issue in
- 11 this case?

12

13

15

16

- A. I forget. Can we bring that document up?
- Q. Yeah, I can get you Seymour.
- MR. FROST: Would you like a copy?
 - MS. SCOTT: Yes, please. Thank you.
 - (Exhibit 10 was marked for
- identification.)
 - MS. SCOTT: Are you marking this?
- MR. FROST: Yes, I forget what number it
- 20 is.
 - MS. SCOTT: Ten.
- MR. FROST: Ten.
- A. I think "specific" is -- I think it might
- 24 be a typo.
- 25

21

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- 1 BY MR. FROST:
- 2 Q. Okay.
- A. So as I look at this document, I
- 4 basically remember looking at the introductory material
- 5 in it. So --
- 6 Q. You'd agree with me it's a thesis about
- 7 the East Johnson mine?
 - A. I would have to reread the document.
- 9 Q. If I would represent to you it's about
- 10 the East Johnson mine and if you actually look at the
- 11 abstract --

13

16

- 12 A. Foley and Johnson.
 - Q. And you'd also agree with me the East
- 14 Johnson mine was never one that was used for cosmetic
- 15 talcum powder by Johnson & Johnson, correct?
 - MS. O'DELL: Objection to form.
- A. It may not have been used, but it is in
- 18 the same general geology. And, certainly, in geology,
- 19 it is part of the same general terrane, so therefore,
- 20 it's not exactly like the hammer, the Rainbow mine, but
- 21 it is relevant because it's geologically connected in
- the sense of the terranes.
- 22 the sense of the terra
- 23 BY MR. FROST:
- Q. So you're telling me that it has the same
- 25 formation as the deposits in the Hammondsville and

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- 1 Rainbow mines or are you just saying --
- 2 I don't remember specifically, but
- 3 essentially the geology, so...
- The second half of my question, or is it
- more that you're basing it on they're all part of the
- 6 ultramafic belt, the Appalachian ultramafic belt that
- runs from Quebec through Georgia?
- It is more the general geologic A.
- association. 9
- 10 Okay. That's all I was going to ask Q.
- 11 about that.
- 12 Page 15 is geologic map of Vermont. It A.
- 13 shows things being connected.
- 14 Well, it shows the Appalachian ultramafic
- ¹⁵ belt running through Vermont, correct?
- 16 Yes. A.
- 17 Turn to page 6 of your report, the
- 18 "Common toxic metals of interest." So before we start
- 19 looking at any specific documents, will you agree with
- 20 me that seeing metals at certain levels in deposit
- 21 samples is different than seeing metals in certain
- 22 levels in a finished talcum powder product?
- 23 MS. SCOTT: Objection.
- It can be metals in processing. It could
- 25 be reduced or they could also be increased depending

Q. And that's probably a pretty good example. I take it they -- every now and again, they

5 unit that they avoid, because it's got all kinds of

take samples from the problematic portion of that mine,

1 define the geology as a whole, you know. So they want

2 to know where ore is and where ore is not, if there is ³ problematic areas. So, for example, the mine I work

4 with in Nevada, they have a formation, Stebbins Hill

- correct?

6 problematic stuff in it.

- 11 They sample everything as they go. So
- 12 I've seen datasets of 20,000 from a single -- single
- 13 level.

14

- Q. So what I'm getting to is just because
- you have a test of -- you know, a test coming back from
- a mine doesn't necessarily mean that the rock associated
- with that test makes it into the final product, right?
 - MS. SCOTT: Objection.
- 19 A. I don't -- there's no -- I didn't see any
- 20 specific chain of custody, so I can't, you know.
- 21 BY MR. FROST:
- 22 Q. I'm talking from a general perspective.
- 23 They're sampling a lot more of the rock than that
- 24 ultimately ends up in a final product in a mine,
- 25 correct?

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- 1 upon the details of the processing. I don't think I saw
- 2 any documents, although I requested documents, any
- 3 documents about the detail, you know, before -- before
- 4 and after, kind of full throughput, you know, as far as
- 5 watching a specific sample go through, but, yeah.
- 6 BY MR. FROST:
- 7 Q. You'd also agree with me, too, that
- 8 sometimes mine samples aren't necessarily from the ore
- 9 that is used in the final product. It might be from a
- 10 boundary. It might be from a surrounding rock, a black
- 11 wall. Just because you see something in a sample
- 12 doesn't necessarily mean that that's the ore that is
- 13 then converted over into the final powder as well,
- 14 correct?
- 15 MS. SCOTT: Objection.
- 16 MS. O'DELL: Object to form.
- 17 A. I am confused by the question. As I
- 18 think I understand you, can contaminants or other
- material that is not the primary ore be included in the
- ore processing?
- 21 BY MR. FROST:
- 22 Q. Other way around. When you sample a
- 23 mine, when you drill sample holes, they're not just
- 24 drilling the mineable ore body, correct?
- 25 Generally correct. They're looking to

- MS. SCOTT: Objection.
- So there's a difference between coring to

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- 3 define your geology and then mining --
- 4 BY MR. FROST:
- O. Uh-huh. That's what I'm saying.
- -- to get your product. A.
- So just because you find something here
- doesn't necessarily mean that that ends up, that
- particular test sample ends up in the final ore that
- makes it to the grinding process for final talc,
- 11 correct?

13

16

- 12 MS. SCOTT: Objection. Speculation.
 - A. Yeah. You don't -- that would be
- speculative or you -- it doesn't mean it doesn't.
- BY MR. FROST:
 - Q. But, again, that's why --
- 17 So --A.
- 18 Okay. I'll ask you this way. Does every O.
- single sample that's ever tested in a mine --
- 20 MS. O'DELL: Excuse me. You guys just --
- 21 MR. FROST: Sure.
- 22 MS. O'DELL: If you'd give him a chance
- 23 to finish.
- 24 MR. FROST: I thought he did finish his 25
- question.

Page 150 Page 152 1 MS. O'DELL: I don't think he did. I'm 1 hypothetical questions here. I'm trying to get down to, 2 sure he needs to give you an opportunity to 2 and again, as part of the mining process, you sample to 3 finish as well --3 determine which parts of the ore you avoid and which 4 MR. FROST: I'm sorry. I thought you had parts of the ore you mine, right? 5 finished your question. Yes. That is a common procedure. 6 MS. O'DELL: But you're talking over each So just because a sample comes up and has 7 other. In fact, you just interrupted me. a hit of a particular chemical in it doesn't necessarily 8 That's why I was distracted. Can you mean that they then use that as a final product, because 9 restate your question again, please? part of sampling is to tell you what parts of the mine BY MR. FROST: 10 to avoid, right? 11 Q. Sure. So my question is: Every sample 11 MS. SCOTT: Objection. 12 12 that comes out of a mine doesn't -- you know, everywhere A. Potentially. But there's reasonable risk. If you find it in one spot, it might be near 13 they're sampling, they're doing core outside of the talc 14 body. They're coring through. They're trying to find another spot. When you have high concentrations, such 15 areas of ore they don't use. Do you agree with all as those observed, it's a natural. Essentially, you these as just general mining concepts? 16 have gradients that occur over some degree of space. So 17 A. Generally. you, you know, so arsenic might have, you know, a 18 Okay. thousand parts per million in one spot and be zero in Q. 19 A. But it -- go ahead. another, but without, you don't know where to mine, 20 where that's cut -- cut off. And you also agree with me that, 21 BY MR. FROST: generally, mines aren't just sampling from the ore they are using to put into a final product, correct? 22 Q. But, again, but my question's very easy, 23 MS. SCOTT: Objection. 23 and it's just because you see something here doesn't 24 A. Correct. But that doesn't mean that -mean it's there, right? You'd have to know more? 25 that doesn't mean that you're not, when you sample and MS. SCOTT: Objection. Page 151 Page 153 1 find things like asbestos, it doesn't negate that they 1 BY MR. FROST: 2 exist. Right? 3 BY MR. FROST: Correct. Q. Okay. Here's my next question: Based on Okay. And just because something shows 5 that, just because a sample comes back with a particular up here doesn't necessarily mean it's going to end up in 6 level of some, say, heavy metal, you know, just because what becomes the mill feed, right? 7 some sample in a mine somewhere came up with a level of MS. SCOTT: Objection. 8 chromium, for example, based on that sample, you can't A. Correct. But there's always the 9 say, without knowing more, that that particular area potential for it to do so. 10 where the sample came from ultimately ended up in talcum 10 BY MR. FROST: 11 powder that consumers used, right? 11 Q. Okay. And you also agree with me that 12 MS. SCOTT: Objection. Calls for 12 beneficiation is one way that mines specifically for 13 talc can clean out some of the accessory minerals and speculation. A. So, yeah, I think it is speculative, some of the heavy metals, right? 15 because you're talking about one powder. There's many, 15 MS. O'DELL: Object to the form. 16 many analyses of things. So you're not -- you're not 16 A. Beneficiation works when applied gonna spend a huge amount of time on things that are not properly. I'm not a mineral engineer, so I don't fully 18 directly related to your work, because, you know, you do think I can comment on details of that. 19 have to keep costs in mind. So, you know, if -- you 19 BY MR. FROST: 20 know, there were numerous, numerous, numerous analyses 20 Q. Okay. But you agree with me that 21 of arsenic, for example, in some of the Vermont beneficiation is one way in which you can reduce the 22 material. So, you know, some of those were related to amount of, say, a heavy metal that ends up in a final 23 ores. And let's look to --23 product, correct? 24 BY MR. FROST: 24 MS. SCOTT: Objection. 25 25 We don't need to. I'm asking very just I would rather not comment, so the --

Page 154 Page 156 1 BY MR. FROST: 1 beforehand, and basically, they walked away with \$50,000 2 2 worth of aquamarines. So gem mining certainly is You comment in your report specifically something that you could selectively mine. 3 about the beneficiation going on at the Vermont mines. So is that not something you're going to opine on here? Gold is another example where there are 5 MS. SCOTT: Do you want to point him to 5 deposits in Nigeria where, essentially, groups of women 6 6 go out and they selectively, you know, go through, the place in his report? 7 7 basically pan and find gold nuggets. I think it's --Yeah. Sorry. Is this the Colorado mines 8 study? you know, it really depends on how you say selective BY MR. FROST: mining, and so the thing that, you know -- did I answer 9 10 that? 10 Q. Yeah, it might be. I don't have it right 11 in front of me. It's something that I think we can get 11 Q. I'm listening to your explanation, yeah. 12 12 back to later. But you agree with me as a general Okay. So selective mining, I think in the context of talc deposits, is -- I really don't think mining concept --13 14 A. I'd like to see the document. you can effectively do it. So with respect to Chinese 15 ore that is supposedly hand sorted -- let me find where Yeah. Well, I'm asking you general concepts, because you are giving opinions about the that section is. So if you're -- yeah, as I understand 17 mining that was going on at these mines, correct? it, they basically look at the rock and say it's okay. 18 A. Yes. There's nothing wrong. 19 Q. And beneficiation is one thing that mines 19 Well, there's several issues with that. use, correct? 20 20 So, one, the human eye cannot detect either metals or 21 21 small asbestos fibers by simply looking at, at the rock, A. Yes. 22 22 at the surface of the rock, right? So, essentially, you And beneficiation can be used to reduce the amount of contaminants that are in an ore, correct? can do it. You can visually inspect the outside of the 24 MS. SCOTT: Objection. material, and you would not be able to visibly see if 25 there's a thousand parts per million of nickel or MS. O'DELL: Objection to form. Page 155 Page 157 Reduce, but not purify. 1 chromium or some other element. 1 2 BY MR. FROST: And then, in addition, you can have 3 3 inclusions of stuff in the rock that you could not --It can be used to reduce, correct? 4 you just physically can't see. So there's a 4 MS. SCOTT: Objection. 5 Potentially, if executed well. 5 hypothetical risk that you can have inclusion of, let's 6 BY MR. FROST: 6 say, sulfides, a lot of sulfides, a nodule that has a 7 Q. Okay. And selective mining is another 7 lot of sulfides in it, that, in this chunk, you would tactic that can be used in an ore to try to reduce not be able to visually discern what was there. So and 8 9 contaminates, correct? then, you know, so you basically -- and so that's the sorting, as I understand it, with China. 10 MS. SCOTT: Objection. 10 11 No. There's -- the selective mining was 11 Q. Do you agree with me that -- so, is it 12 an issue, significant issue that I found. And the your opinion that selective mining for talc can never 13 reason -work or do you agree with me that selective mining is 14 BY MR. FROST: one of the tools that a mine can use to help to purify 15 15 its ore? Q. I'm asking in general, sir. Can 16 16 selective mining --I would say in the context of -- in the 17 context of talc, selective mining is not very effective, In general, I don't -- you know, I think 18 it really depends on what you mean by "selective because the scale of the issue is with the ore. 19 19 mining." So I think a good effective example of Okay. Other than your personal opinion, 20 selective mining would be gemstones. So you find a can you cite to me any peer-reviewed or scientific 21 pegmatite. You go -- actually, there was a group that source that supports that?

23 Colorado. They basically looked at the geology. They ²⁴ selectively looked at specific lithologies. They were

22 did this a couple years ago. They went to a site in

25 able to narrow it down. They did a lot of research

22

MS. SCOTT: Objection.

23 A. I don't think there's any peer-reviewed 24 literature that I can think of. I think it's just

25 common sense. You know, everyone knows that you can

1	82557°	Т.	D 160
1 1	Page 158		Page 160
	hide you can have inclusions and impurities in an		basis of this is Van Gosen 2004. I'm going to mark
	ore. And if you're only using your eyes and you're only	2	
	hand sorting things plus there's human error.	3	A. Okay. It's the environmental earth
	There's just simply human error. If someone, you know,	4	K · F
	is, you know they'll just make mistakes.	5	Q. What's that?
6	And then the other issue I think is	6	A. It's the environmental earth science
7		7	paper? It's the journal?
	or no description of the training methods that were used	8	Q. Yes. Environmental Geology, 2004.
9	for hand sorting. So an ore-controlled geologist is a	9	A. Oh, yeah. That's currently the
10	common, common position in mines.	10	journal name changed. I had a few papers in it. Is
11	One of my former students, he's an	11	
12	ore-controlled geologist in Stillwater, and it takes	12	Q. The court reporter's marking it.
13	three months of training for them to delineate the ore.	13	(Exhibit 11 was marked for
14	So that is an example of selective mining, but there's a	14	identification.)
15	high level of effort that goes into it, and the goal is	15	BY MR. FROST:
16	platinum. And, basically, the way that particular mine	16	Q. Since we've already established we're
17	is set up is to extract the platinum. They're not	17	talking about the same paper, can you show me anywhere
18	really they don't have to worry about other	18	in this paper that Van Gosen specifically speaks about
19	contaminants that might be present.	19	any of the mines that you've listed here in your report?
20	BY MR. FROST:	20	A. Correct. No specific mine is listed. It
21	Q. Okay. I'm going to stop you because we	21	talks about Vermont talc, in general.
22	keep getting off on a lot of these tangents. My	22	(Exhibit 12 was marked for
23	question was: Can you point me to any mining studies or	23	identification.)
24	anything else that say that selective mining does not	24	BY MR. FROST:
25	work for tale?	25	Q. I've now marked the Ross article. It's
	Page 159		Page 161
1	A. I know of no peer-review publications.	1	Ross 74. "Environmental Health Perspectives." She's
2	Q. Okay. Thank you. Turn to page 7 of your	2	
		4	
2	report It's / into X actually. You know we start	2	•
	report. It's 7 into 8, actually. You know, we start	3	A. Oh.
4	talking about the various regions that talc is sourced	4	A. Oh.Q. Same question. Can you show me where in
4 5	talking about the various regions that talc is sourced from, correct?	4 5	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by
4 5 6	talking about the various regions that talc is sourced from, correct? A. Yes.	4 5 6	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson?
4 5 6 7	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various	4 5 6 7	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection.
4 5 6 7 8	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you	4 5 6 7 8	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine.
4 5 6 7 8	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the	4 5 6 7 8 9	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST:
4 5 6 7 8 9	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here?	4 5 6 7 8 9	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry.
4 5 6 7 8 9 10	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review.	4 5 6 7 8 9 10	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead.
4 5 6 7 8 9 10 11 12	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this	4 5 6 7 8 9 10 11	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you
4 5 6 7 8 9 10 11 12 13	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something	4 5 6 7 8 9 10 11 12 13	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document
4 5 6 7 8 9 10 11 12 13 14	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself?	4 5 6 7 8 9 10 11 12 13 14	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway.
4 5 6 7 8 9 10 11 12 13 14	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it.	4 5 6 7 8 9 10 11 12 13 14	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for
4 5 6 7 8 9 10 11 12 13 14 15	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we	4 5 6 7 8 9 10 11 12 13 14 15 16	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.)
4 5 6 7 8 9 10 11 12 13 14 15 16	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you	4 5 6 7 8 9 10 11 12 13 14 15 16	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST:
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you have a sentence that reads, "These mines are known to	4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST: Q. Do you remember looking at this document?
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you have a sentence that reads, "These mines are known to have impurities associated with talc, including toxic metals, chrysotile, and amphibole asbestos." Do you see	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST: Q. Do you remember looking at this document? A. Actually, I'm unsure. Q. Okay.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you have a sentence that reads, "These mines are known to have impurities associated with talc, including toxic metals, chrysotile, and amphibole asbestos." Do you see that? MS. O'DELL: Objection to form.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST: Q. Do you remember looking at this document? A. Actually, I'm unsure. Q. Okay. A. I might have used the wrong number. Q. Okay. But you agree with me this doesn't
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you have a sentence that reads, "These mines are known to have impurities associated with talc, including toxic metals, chrysotile, and amphibole asbestos." Do you see that? MS. O'DELL: Objection to form. A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST: Q. Do you remember looking at this document? A. Actually, I'm unsure. Q. Okay. A. I might have used the wrong number. Q. Okay. But you agree with me this doesn't talk about any of the mines, certainly, right?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	talking about the various regions that talc is sourced from, correct? A. Yes. Q. Okay. On page 7 to 8, you list various time frames and various mines, you know, from which you believe. I take it this came from your review of the documents, the timeline that you put forth here? A. Just give me a moment to review. Q. The easier way to ask is: Is this something that was provided to you or is this something that you came up with yourself? A. I came up with it. Q. Okay. So at the very end of it, so we talked about all the various mines, and afterwards, you have a sentence that reads, "These mines are known to have impurities associated with talc, including toxic metals, chrysotile, and amphibole asbestos." Do you see that? MS. O'DELL: Objection to form. A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Oh. Q. Same question. Can you show me where in this article it details any mine actually used by Johnson & Johnson? MS. SCOTT: Objection. A. I don't see mention of a specific mine. BY MR. FROST: Q. Next, I'm going to mark I'm sorry. A. Go ahead. Q. I didn't mean to cut you off if you weren't done. Next I'm going to mark Document JNJ 000521616, the first page of it, anyway. (Exhibit 13 was marked for identification.) BY MR. FROST: Q. Do you remember looking at this document? A. Actually, I'm unsure. Q. Okay. A. I might have used the wrong number. Q. Okay. But you agree with me this doesn't

Page 162 Page 164 1 MS. O'DELL: Object to form. 1 as amphibole and grit and stuff like that, correct? 2 A. Correct. I -- I haven't -- I don't think So, for example, the one ending in 87231, 3 I've seen this. I think I used -- there's a typo or "Battelle Memorial Institute document dated 1958, 4 something in there. Sorry. 4 indicated the presence of tremolite in the talc, BY MR. FROST: 5 commonly at levels ranging from 1-3 percent. That 6 Q. No. That's okay. That's why we're --6 document also studied the abrasiveness and grit of that's why we're doing this. 7 Italian talc." So that's something, that the grit is in All right. If you turn to page 14 of addition to the finding of tremolite. 9 your report under, "Evidence that Asbestos Occurred in Q. Do you agree with me that none of these 10 Defendants' Mines." The first sentence reads, "The documents actually find asbestos or define that they 11 documents I reviewed provided strong evidence that the have found asbestos in any of the ore from Italy? MS. O'DELL: Object to the form. 12 talc used by Imerys and Johnson & Johnson to produce 13 Johnson's Baby Powder and Shower to Shower came from 13 A. I would want to double-check all of mines that contained asbestos minerals or fibrous talcum these, but they do two things. The last one, presence 15 in an asbestiform habit." Did I read that right? of tremolite and actinolite and, also, tremolite and one 16 A. Yes. that I just mentioned. And tremolite is a -- recognized 17 O. And looking back, you cite the same exact as a carcinogen by IARC 2012. 18 documents as we just -- as the last sentence, correct? 18 Q. Can you show me anywhere in your report 19 MS. SCOTT: Objection. that you note that tremolite is found by IARC to be a A. It's in the report. potentially dangerous mineral, you know, a human 20 BY MR. FROST: 21 carcinogen? 21 22 Q. Yeah. Okay. And you'd agree with me, 22 (Exhibit 14 was marked for 23 you know, that these materials don't actually relate 23 identification.) 24 directly to the mines used by Johnson & Johnson as 24 I can't find a specific example. 25 identified on pages -- I believe it's 7 and 8 of your 25 Page 163 Page 165 1 report, right? 1 BY MR. FROST: 2 MS. SCOTT: Objection. Q. And you're not qualified to say whether 3 MS. O'DELL: Objection to form. 3 or not a particular mineral would be harmful, you know, I would have to read -- double -- I would 4 as a human carcinogen. You have no basis by which to want to double-check each individual document. say that's correct or not correct, right? 6 BY MR. FROST: MS. SCOTT: Objection. 7 But, certainly, the ones we just looked Correct. I'm not a medical. Q. A. 8 at --BY MR. FROST: 9 The one we just looked at. Q. Okay. All right. What number was that? A. 10 -- certainly don't support that, right? Fourteen. So I've just marked -- I've given you a Q. binder marked 14. It has tabs 1 through 5. I'm sorry. 11 A. Correct. 12 Okay. All right. Move on to the next I have yours. I apologize. 13 section of the report. It's "Mines in Italy," pages 8 13 So these are the various documents you 14 to 9, I believe, of your report. cite in your report. So let's look through each of 15 A. Oh, 8 to 9. them. We'll start with 1. 16 16 MS. O'DELL: Let's get this one back Then on page 9, it's the third paragraph. 17 17 You have, "Based on what I have reviewed, I have together. 18 sufficient basis to conclude that Italian ore was of MR. FROST: Oh, did it come apart? 19 19 poor quality," correct? MS. O'DELL: Yes. Is there a particular 20 Yes. 20 part of his report that these came from or are A. 21 What are you talking about there when you you jumping around? Q. 21 say "poor quality"? 22 MR. FROST: Yes. No, we're talking about 22 the report now. They're page 9 to 10. These 23 A. That I'm referring to the findings of the 23 24 items listed below. 24 are the documents that support the 25 25 These items are talking about things such ore-is-of-poor-quality statement.

Page 166 Page 168 1 BY MR. FROST: 1 BY MR. FROST: 2 Q. So this first one, can you tell me Q. But it's JNJAZ55_6104. I think it starts 3 anywhere in the Battelle report that starts JNJ 87868, ³ at 6103, but 6104 is the letter. The one, two, three --4 that they note the trace amounts of amphibole are 4 fourth paragraph down says, "I have also checked into asbestiform in any way? 5 the mineralization of that part of the territory, and 6 MS. O'DELL: Object to the form. 6 the minerals which show in the valley are: Talc, 7 No, I don't. ⁷ pyrite," magnesite -- sorry, "magnetite, calcite, BY MR. FROST: dolomite, apatite, clinochlore," sorry, "chrysotile," 9 Q. Okay. Turn to tab 2, which is -- the and then, you know, talks about others, including 10 document starts JNJ 87231. Same question. Can you tell 10 tremolite, actinolite, correct? 11 me anywhere in here where, I believe it's Battelle 11 A. Yes. 12 12 again, identifies finding any asbestiform mineral? Q. And this is talking about the valley. 13 MS. SCOTT: Objection. 13 There is nothing in here that indicates that this is 14 A. So tremolite is noted as trace on page 4 talking specifically about the Fontaine mine, correct? MS. SCOTT: Objection. 15 here. 16 BY MR. FROST: 16 MS. O'DELL: Objection. 17 17 O. Does it note the trace tremolite has A. It's unclear. 18 asbestiform? 18 BY MR. FROST: 19 A. No, it does not. 19 Q. Dr. Ashton also isn't saying that any of 20 Q. So you'd have no way to tell whether or these minerals have been found in the ore coming from not it's asbestiform or non-asbestiform based on this the Fontaine mine, correct? 22 MS. O'DELL: Objection to form. 22 document? 23 23 MS. O'DELL: Object to form. MS. SCOTT: Objection. 24 MS. SCOTT: Objection. 24 A. Correct, but mineralization of that part 25 The -- it has been so, "The amphibole of the territory. So... Page 167 Page 169 1 component has been established to be the variety of 1 BY MR. FROST: 2 tremolite." Yeah. It does not say that it is asbestos But there can be different mineral ³ profiles throughout the valley depending on when it ³ form, but it is tremolite. 4 BY MR. FROST: 4 formed, what it formed from? Q. Okay. Turn to tab 17 -- or sorry, tab 3. Yes, and it could be present because of 6 It's the document Bates numbered JNJAZ55_213. the association observed. And, again, I think it mentions tremolite Unfortunately, there's just no way to O. 8 and actinolite as things that may be in the ore, but it tell from this document, correct? 9 doesn't talk about whether or not anything's asbestiform 9 MS. SCOTT: Objection. 10 or any levels, correct? 10 MS. O'DELL: Object to form. 11 True. It does say tremolite and 11 A. A. Correct. 12 BY MR. FROST: 12 actinolite. 13 Q. Turn to tab 4. Somebody's conveniently Q. All right. Turn to tab 5. It's the 14 put an arrow, I think, to the paragraph that you're document that starts JNJAZ_87. This is the Pooley 15 relying on. It states -- sorry, this is the document report from 1972. It's very long, so I'll help you out. 16 that starts JNJAZ --If you turn to the very end of it --17 17 MS. O'DELL: Just to make clear --MS. O'DELL: Doctor, feel free to --18 MR. FROST: It's on the document. 18 BY MR. FROST: 19 MS. O'DELL: It's the original. 19 Yeah. I was going to say, you can review MR. FROST: Yeah. I was going to say, 20 the whole thing if you want, but I'm going to 21 it's not something we've done. concentrate on the "Conclusions" section. 22 MS. SCOTT: Or anyone else? 22 If you look at -- it's on page 121 of the 23 MR. FROST: Yes. It's part of the 23 report. 24 original document as produced. 24 A. Oh, this one. 25 25 Do you recognize that you've seen this Q.

Page 170 Page 172 1 one? 1 formed from the amphibole mineral found at the mine were 2 Yeah. 2 hardly fibrous in character, the majority of the A. 3 3 tremolite breaking to give compact particles," correct? Q. The quality's bad. A. It also said, "Those fibres formed were 4 Oh, there's -- you can see chrysotile. short and had a very large diameter." So fibers were 5 "Examples of commercial amphibole and chrysotile 6 asbestos particles together with typical selected area formed. But, yeah, you're correct. electron diffraction patterns." Yeah. So the images So, again, it's his opinion that there are here, but, yeah. So, yeah. That's right. That was no asbestos in that test, correct? MS. O'DELL: Object to the form. 9 page you can't tell. MS. SCOTT: Objection. 10 MS. O'DELL: What page are you on? 10 11 THE WITNESS: I'm on Page 56. I'm sorry. 11 BY MR. FROST: 12 MS. O'DELL: Yeah. No, no. I'm just 12 Q. But that the tremolite was not 13 trying to follow along. You go where you need asbestiform. I think they were just called the 14 to go. amphibole, but the amphibole that he found was not asbestos, correct? 15 A. Amosite asbestos particles there. 16 BY MR. FROST: 16 A. Correct. 17 17 Again, the chrysotile you pointed out on Turning back to your report, page 10, the "Mines in Vermont." So I think we talked about it a 18 56, he's showing you an example of what a commercial chrysotile looks like, right, not a picture of what came little bit, but I think you and I will agree the from the talc. Do you agree? Appalachian ultramafic belt is where the talc is found 21 in Vermont, correct? I think it's your second sentence. MS. O'DELL: Object to the form. 22 22 What's your question? Yes. Yeah. 23 23 BY MR. FROST: Now, do you have the opinion that all the Q. When you just talked about 56, the ultramafic rocks within the Appalachian belt had the same general metamorphic histories and formation 25 picture of chrysotile you're talking about is a Page 171 Page 173 1 histories and profiles? 1 reference to --2 2 I just recognized it. No. There would be some variability. 3 Okay. I agree with you. So have you Okay. MS. O'DELL: Object to the form. 4 4 ever looked at the local geology for the formation BY MR. FROST: associated with the Hammondsville mine? 6 Q. So if you look at the fourth paragraph A. I've never been on site. I've never been 7 down on page 121, Pooley's page 121, it's page 210 of to the mine. 8 the Bates number. The conclusion is "The only 8 Q. Have you ever looked at any geological 9 asbestos-type mineral to be detected in the hand samples survey specific to the Hammondsville mine deposit? 10 was tremolite, which was found in three specimens." If 10 A. The Hammondsville? 11 you go down to the next sentence, it says, "no tremolite 11 Q. Yes. 12 12 was detected in the talc-type specimens." Is that A. Yeah. Yeah. I see its geological 13 right? 13 survey. 14 MS. O'DELL: Object to the form. I see the one you've typed here. That's 15 really just geological survey showing you where it is, A. That's what it says, yes. 16 BY MR. FROST: correct? That doesn't tell you about the morphology and 17 17 the geological deposit formation? Q. Okay. So, again, Pooley did not find any 18 18 tremolite in the actual ore or the talc, correct? A. I think there's some geologic data that's 19 MS. O'DELL: Object to the form. 19 associated with it. I don't remember specifics. 20 MS. SCOTT: Objection. 20 Q. Okay. So and this is true for -- it's A. As it reads, yes. 27, 28, 29 and 30, your footnotes, correct? These are 21 22 BY MR. FROST: all, you know, USGS website hits for Hamm, et cetera? 23 23 Q. And if you go to the next page, page 122, A. Yeah. 24 it's the first full paragraph, the second paragraph on 2.4 Q. Have you ever looked at any of the USGS 25 the page. About halfway down, it reads, "Particles 25 actual reports or surveys that were done examining the

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	Page 174		Page 176
1	talc in these particular mines?	1	geological survey?
2	A. I believe I have.	2	A. As stated, yeah.
3	Q. Do you recall which ones they are?	3	Q. Any reason this would not have come up in
4	A. Not specifically at the moment.	4	your search?
5	MS. SCOTT: Before you get into this	5	MS. SCOTT: Objection.
6	next	6	A. I didn't search for this particular
7	MR. FROST: Do you want to take a break?	7	document. When I was doing my search for the
8	MS. SCOTT: Yeah, let's do that. We've	8	peer-review literature, you know, I use, like, Web of
9	been going about an hour and a half, I think, is	9	Science. So Web of Science has, essentially, this
10	that right, or about an hour?	10	higher level of peer-review material. So this isn't
11	MS. O'DELL: Hour and 13 minutes.	1	necessarily these types of reports aren't included in
12	VIDEOGRAPHER: We're now going off the	1	that, but I did use Google to search things, and that's
13	record. The time is 2:39.	1	how I found some of the other things. So but, no, I
14	(A recess was taken from 2:39 to 2:58)	14	don't believe that I've seen this report.
15	VIDEOGRAPHER: We're now back on record,	15	BY MR. FROST:
16	and the time is 2:58.	16	Q. Okay. Given your rendering opinions
17	(Exhibit 15 was marked for	17	about the geology specifically at the Vermont talc
18	identification.)	18	deposits, any particular reason you didn't search the
19	BY MR. FROST:	19	geological surveys, the USGS surveys regarding the
20	Q. All right. I'm going to start can you	20	areas?
21	grab, I think, number 15? It's the 1951 geological	21	MS. SCOTT: Objection.
	survey from Chidester. Have you ever seen this article	22	A. I looked at the literature that I thought
	before?	23	
24	A. I don't remember. Let me look at my		BY MR. FROST:
	references, the author or the agency. It doesn't appear	25	Q. The next one marked. Take a look at
	references, the dather of the agency. It doesn't appear		Q. The next one marked. Take a look at
	D 175		D 155
	Page 175		Page 177
1	to be on my reference list.	1	yep, the next one.
1 2	_	1 2	_
	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to		yep, the next one. MS. O'DELL: What's the exhibit number on this one?
2	to be on my reference list. Q. Okay. Turn to page 28 of the report.	2	yep, the next one. MS. O'DELL: What's the exhibit number on
3	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to	3	yep, the next one. MS. O'DELL: What's the exhibit number on this one?
2 3 4	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to take a look at the entirety of the report if you	2 3 4 5 6	yep, the next one. MS. O'DELL: What's the exhibit number on this one? MR. FROST: Sixteen. (Exhibit 16 was marked for identification.)
2 3 4 5	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to take a look at the entirety of the report if you need to.	2 3 4 5 6	yep, the next one. MS. O'DELL: What's the exhibit number on this one? MR. FROST: Sixteen. (Exhibit 16 was marked for
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to take a look at the entirety of the report if you need to. A. Okay. I'm not sure. MS. SCOTT: Do you have one? MR. FROST: Do you need a copy? MS. SCOTT: Yes. MR. FROST: I apologize. MS. SCOTT: That's okay. Thanks. MR. FROST: You're welcome. Sorry about that. MS. SCOTT: No problem. BY MR. FROST: Q. And my question about this paper is: You agree with me, turning to page 28, that this geological	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	yep, the next one. MS. O'DELL: What's the exhibit number on this one? MR. FROST: Sixteen. (Exhibit 16 was marked for identification.) BY MR. FROST: Q. And, again, this is Chidester 1964. A. It's the geological survey. Let me check and see if I have that. It doesn't look like I have that in the reference list. Q. Turn to pages A. So let me look. Can I look at the report and Q. Yes. A just see what the nature is? Q. Sure. And, specifically, I'm going to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	to be on my reference list. Q. Okay. Turn to page 28 of the report. MS. SCOTT: And, Doctor, feel free to take a look at the entirety of the report if you need to. A. Okay. I'm not sure. MS. SCOTT: Do you have one? MR. FROST: Do you need a copy? MS. SCOTT: Yes. MR. FROST: I apologize. MS. SCOTT: That's okay. Thanks. MR. FROST: You're welcome. Sorry about that. MS. SCOTT: No problem. BY MR. FROST: Q. And my question about this paper is: You agree with me, turning to page 28, that this geological survey specifically talks about the Hammondsville talc mine, correct? A. Turn to page 28. Let's see here.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	yep, the next one. MS. O'DELL: What's the exhibit number on this one? MR. FROST: Sixteen. (Exhibit 16 was marked for identification.) BY MR. FROST: Q. And, again, this is Chidester 1964. A. It's the geological survey. Let me check and see if I have that. It doesn't look like I have that in the reference list. Q. Turn to pages A. So let me look. Can I look at the report and Q. Yes. A just see what the nature is? Q. Sure. And, specifically, I'm going to turn your attention to 48 and 49. A. 48 and 49, okay. Let me look at the report in general here.
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Page 178 Page 180 1 A. Yes. It says, "Chemical analyses of a MS. O'DELL: Let him finish. 2 variety of talc in Vermont," and the year on this is --A. Power diffraction was beginning to be 3 well, I'm sorry. 3 common and then chemical analyses. So I didn't Q. I believe it's 19 --4 necessarily exclude it based on -- or I didn't really --So 40a, 40b and 40c. The source is from 5 I just -- I didn't find it, but I didn't -- you know, 5 6 Spence, so let's see what Spence 1940 is. So at that 6 these are older references and I would not -period of time, most things were done by wet chemistry, BY MR. FROST: 8 and so the -- there were limitations as far as the Q. That was question is you didn't find detection limits. So I'm sorry. 1940. 9 this, right? 10 10 Q. Well, again, my question --MS. SCOTT: Objection. 11 A. Yeah. Go ahead with your question. 11 A. I did not search for a lot of the older 12 literature because the analytical methods dated, 12 Despite the fact that there is specific 13 testing of ore in this document as well as Spence, predated what appear to be the operational -- operation neither of those two documents ever came up in your timelines or -searches, correct? BY MR. FROST: 16 MS. SCOTT: Objection. 16 Q. But it doesn't sound like you searched BY MR. FROST: for any USGS surveys regarding these specific mines; is 18 Q. And this is testing specific to the ore that fair? That wouldn't have come up in your search? 19 from the Hammondsville mine. Do you agree with me that 19 MS. SCOTT: Objection. neither Spence nor this paper came up in your searches? 20 A. So specific mines may not -- they're not 21 A. Correct. I mean, you know, so one of the necessarily in USGS reports. Mines tend to show up in things is that it depends --22 USGS reports if there's permission or --22 23 Well, answer my question. BY MR. FROST: Yep. I'm seeing if it -- it's not --Q. Sir, I have a limited amount of time, and 25 actually, Spence is not cited in this document. 25 I really need you to just answer my questions. So my Page 179 Page 181 1 Q. It appears to be. Spence? 1 question is --2 Pearre, Pearre, Pearre, Perry, I'm trying to give a thorough answer. A. 3 Pratt, Quinn. No, no. The question is -- it's a very If you at page 61, Spence, HS 1940. 4 simple question. Did you search USGS reports for the 4 Q. specific mines that Johnson & Johnson used in Vermont? 5 It's not listed in the --6 O. Page 61, selected bibliography? MS. SCOTT: Objection. 61. I'm sorry. I don't see it. Oh, A. I don't remember. Spence. I was thinking Pence. Okay. Right. Very BY MR. FROST: 8 9 good. 9 Okay. And you certainly didn't cite 10 Q. 10 them. Okay. 11 So, essentially, the -- I don't think the 11 I did not cite these. I did not cite 12 company was mining Hammondsville at that time, was it? 12 these. 13 My question becomes, did these come up --13 Do you know what NIOSH is? Q. 14 despite the fact that there's testing specifically of 14 A. Yes. 15 Okay. Are you aware that NIOSH has 15 ore from Hammondsville in both Spence and this, this Q. 16 report did not come up or the Spence report come up in funded an epidemiological study based out of the workers 17 your searches; is that correct? 17 of the Vermont mines? 18 18 MS. SCOTT: Objection. MS. SCOTT: Objection. 19 19 A. Correct, because the analytical A. I'm not a medical expert. I only know NIOSH really exists. I use it for the basic definition. 20 techniques at the time, certainly for electron 21 microscopy, was in its infancy. Power diffraction BY MR. FROST: 22 22 was --O. So is that a no? 23 BY MR. FROST: 23 I'm sorry. Repeat the question, please. 24 Q. So you're saying it didn't come up in 24 I said, are you aware that NIOSH has run 25 your computer search because of --25 an epidemiological study of the workers at the Vermont

			EL, PII.D.
	Page 182		Page 184
1	mines?		explanations about other parts of the report that don't
2	A. No I am not. I don't remember.	2	have to do with question are just taking up my time on
3	MR. FROST: We'll mark this as I	3	the record. So I'm not trying to be rude, but I'm
4	believe this is new 17.	4	running out of time, so I'm trying to move it along.
5	(Exhibit 17 was marked for	5	MS. SCOTT: But to be fair, you're also
6	identification.)	6	asking him about an epidemiological study. He's
7	BY MR. FROST:	7	not an epidemiologist.
8	Q. Have you ever seen this paper? Do you	8	BY MR. FROST:
9	know who Dr. Boundy is?	9	Q. And my question was whether or not this
10	A. So what is the journal? I don't have it	10	was something he would have searched for, and the answer
11	cited as Boundy. The journal is this a National	11	is no, right?
12	Institutes of Health paper, just so I can be sure?	12	A. No. I would not go to a journal called
13	Q. I believe it is a journal called Dust and	13	Dust and Disease. Are you okay on time?
14	Disease.	14	Q. You don't need to worry about that.
15	A. Oh, I don't think I cited anything from	15	
16	Dust and Disease.	16	MS. O'DELL: Yes.
17	Q. Okay.	17	BY MR. FROST:
18	A. So in occupational exposures,	18	Q. Turning back to your report, looking at
19	non-asbestiform talc in Vermont. Okay?	19	the bottom of page 10, we then move on to the mines in
20	Q. Is this not something that came up in	20	
21		21	A. I requested documents on I requested
22	your search? MS SCOTT: Objection	22	documents on China, mines in China. There were
23	MS. SCOTT: Objection.		apparently, there was not a whole lot of information. I
	A. No. I'm not I'm sorry. Dust and	23	
24	Disease?	24	know Dr. Longo tested materials from China, but I don't
25		25	think I mean, I made a request for cores. I made
	Page 183		Page 185
	1 agc 163	1	ruge 103
1	BY MR. FROST:	1	requests for testing results, including TEM, XRD, bulk
1 2	_		_
	BY MR. FROST:	2	requests for testing results, including TEM, XRD, bulk
2	BY MR. FROST: Q. That's correct.	2 3	requests for testing results, including TEM, XRD, bulk chemistry. But the data that I was able to have was, as
2 3	BY MR. FROST: Q. That's correct. A. Yeah. I'm not a medical Q. So you wouldn't have	2 3 4	requests for testing results, including TEM, XRD, bulk chemistry. But the data that I was able to have was, as far as I did actually, I tried to search on Web of
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Page 186 Page 188 1 BY MR. FROST: 1 metal contents like lead, cobalt, chromium, iron, nickel 2 I'm talking about documents. 2 and titanium, correct? 3 3 The documents? A. Correct. 4 O. Yes. You have no way of knowing if what 4 O. And then you cite to JNJ 59273, right? plaintiffs gave you is the complete set of documents 5 Right. A. that relate to the mine, right? 6 O. Okay. Let's look at that document. 7 A. I expected --It's got 750 parts per million of 8 MS. SCOTT: Objection. titanium in it. It's actually low. It's like .2. 9 A. Yeah. Of all the documents that exist, I 9 (Exhibit 18 was marked for 10 expect that it's not each and every single document. 10 identification.) 11 BY MR. FROST: 11 BY MR. FROST: 12 Q. So you've made your review and your 12 Q. I'll divert your attention to page 2086. 13 opinions on the China based on what is admittedly an I take it the comment at the bottom of 2086 is where incomplete set of documents provided to you by you're getting this information from, right? plaintiffs' counsel, right? MS. SCOTT: Objection. 16 MS. SCOTT: Object to the form. 16 A. I looked at the data. Actually, I'm 17 A. I don't know if it's fully -- I made looking for the data table that I saw the other day. 18 requests for the China for as much -- all the Yeah, so 2078, titanium 750. The lead there is 12.7 on 19 information on China that there was and, to my the previous table. Let's look and see what the 20 knowledge, what was provided, and then what I looked at, concentrations are. 21 I tried to search things on my own. There just is BY MR. FROST: 22 apparently not a lot I would consider. I would 22 O. You're on 2078? 23 23 certainly consider reviewing documents on China. I I am on 2078. A. 24 would certainly consider translated documents, so 24 Q. Okay. 25 someone who's got an expertise but --A. And so --Page 187 Page 189 1 BY MR. FROST: Q. Do you see the top of 2078 that that chart relates to something called "Kwangsi No. 1 talc"? Again, I'm trying to rein in your answers 3 A. 3 here --A. Okay. Q. Do you believe that Kwangsi No. 1 talc was the talc ever used by Johnson & Johnson? -- to what we're talking about. But I O. 6 want to be clear. The requests you made weren't to It's unclear. I don't. ⁷ either Imerys or Johnson & Johnson. You made those Well, in your report, I think you note requests to plaintiffs' counsel? that they use Kwangsi No. 1 and Kwangsi No. 2, correct? 9 9 A. Yes. Correct. 10 Q. And then plaintiffs' counsel provided 10 MS. O'DELL: Objection. 11 back to you a set of documents? 11 I think -- again, I'm not an expert in 12 12 Chinese language. 13 And you can't tell me whether or not that BY MR. FROST: Q. Q. But you'd agree with me that Kwangsi No. set consists of all documents that you requested related 15 to the Chinese mines, right? 15 1 is not Kwangsi talc, correct? It's a different ore? 16 16 A. I don't really know. Names of mines MS. SCOTT: Objection. 17 A. I cannot without certainty. change and things, but, potentially, they seem different. That's reasonable. But in my sentence, I 18 BY MR. FROST: 19 Q. All right. So let's look at what you say defense information indicating that Chinese talc 20 opine. Page 11, the second paragraph, you state, as far contains higher than normal levels and, you know, the 21 back as 1983, and again, we know in 1983, Johnson & metals are there. So I think that statement is 22 Johnson was not sourcing talc from China, right? 22 consistent with the chart on page 2078 and 2086, and 23 A. Correct. let's look at -- it's been a while since I looked at the 24 Defendants had information indicating 24 document. 25 25 that Chinese talc contains higher than normal heavy Hold on. Let me walk you through it.

Page 192 Page 190 1 A. I'd like to review --1 refer to this as an indication that there are 2 ² problematic materials in Chinese ore. Obviously, it was O. Well, I want to talk about your 3 investigated for a reason, so they were interested in it 3 statement, then. When you're saying Chinese talc is 4 higher than normal --4 at some level. 5 BY MR. FROST: 5 Can I? A. 6 Q. Okay. But you agree with me you have no O. No. 7 way to tell us one way or the other that any of the MS. SCOTT: Let him ask the question. BY MR. FROST: 8 tests of any of the ore in this document actually relate Can you answer my question, please? to the talcum powder that 20 years, 30 years later made 9 Q. it into Johnson & Johnson talcum powder products? 10 Okay. Good. A. 11 When you say Chinese talc contains higher 11 MS. O'DELL: Objection. O. 12 12 than normal heavy metal contents, you're talking about A. The -- the documentation provided to me 13 is -- there's many gaps. 13 all talc from China, not necessarily the Chinese talc that Johnson & Johnson was using? Is that what you're 14 BY MR. FROST: telling me? Q. Sir, I'm talking about this document. 16 MS. SCOTT: Objection. 16 Focus on this document. So my question is: This document, is there anywhere in this document that says 17 A. I'm sorry. 18 BY MR. FROST: the talc that Johnson & Johnson uses 20 years later for 19 I'll ask you the question again, so you talcum powder has constituents? I understand we're 20 don't have to read it. 20 talking --21 21 A. Yeah. A. Has constituents? 22 So in your report, when you're talking 22 Has the constituents we're talking about 23 here. You know, that "Defendant had information 23 about Chinese talc, you're talking about talc from the country of China, not the Chinese talc ore that Johnson indicating that Chinese talc contains higher than normal heavy metal contents like lead, cobalt, chromium, nickel & Johnson was using? Is that what you're telling us? Page 191 Page 193 MS. SCOTT: Objection. 1 ¹ and titanium." Is there anything in here --They simply knew that this is how I --2 A. I meant, essentially, both more Chinese, 3 Chinese talc, meaning talc within the boundaries of they simply know that this report existed, right? 4 China has more or has contaminants and would be of You have to listen to my question. You potential concern. 5 can't tell me one way or the other that this report in 6 BY MR. FROST: 6 any way relates to any talc ever used by Johnson & 7 Q. That's a general statement as to all Johnson for its talcum powder, right? talcs coming out of all talc regions of China? 8 MS. SCOTT: Objection. 9 MS. O'DELL: Object to the form. 9 I do not have a chain of custody, so, 10 BY MR. FROST: 10 yes. 11 A. Well, it's specific to this example, and 11 Q. Okay. 12 as an example, I think there's, there's a lot of concern 12 A. But the way the sentence is phrased, the 13 in the general environmental literature about materials 13 sentence is general. 14 in China in general so --14 O. Yes. We've established that now. 15 15 Q. And by concerns over materials in MS. O'DELL: Excuse me. general, you're talking about now everything coming out BY MR. FROST: 16 17 17 of China as a generalization? No, no. I'm saying --18 18 MS. SCOTT: Objection. MS. O'DELL: You interrupted him -- let 19 19 A. Not everything. him finish. 20 BY MR. FROST: 20 MR. FROST: Sure. 21 Q. But you're talking about, like, the lead 21 BY MR. FROST: concerns out of manufactured products like toys, and 22 Q. In general -we're including this now in your statement, right? MS. O'DELL: Stop talking. Let him talk. 23 23 24 MS. SCOTT: Objection. 24 Thank you. 25 So the sentence is general. Defendants 25 No. I'm sorry. Let me just be clear. I

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	Page 194		Page 196
1	have information indicating that Chinese talc contains	1	deposits are geologically related, to the best of my
2	higher than normal levels of lead, cobalt, chromium. So	2	ability. Again, there is some paucity of data, but it
3	I feel that this document supports that statement. It	3	seemed, from what I could gather, that these are
4	doesn't say all talc, but they had knowledge that	4	geologically related.
5	some	5	BY MR. FROST:
6	BY MR. FROST:	6	Q. So sitting here today, you can tell me
7	Q. Some talc?	7	that you've specifically looked at the Maanshan deposit
8	A talc had issues.	8	and the I apologize to the court reporter for these
9	Q. Okay.	9	names and Zhizhua Mine, and you're confident and you
10	THE WITNESS: My thing is I think it	10	can tell me that you have seen sources that shows those
11	stopped. What time? It says 1520.	11	two exact deposits are similar and come from the same
12	MS. SCOTT: Did you hit "follow"?		areas? And if that's true, what's your source?
13	THE WITNESS: Yeah, I have hit "follow"	13	A. Let me so
14	several times.	14	MS. O'DELL: Objection.
15	BY MR. FROST:	15	A. So asbestos was discovered and fractures
16	Q. All right. While they're sorting that	16	of the talc ore body of the Maanshan deposit looking in
17	out, I'll continue to ask my questions.	17	the Shanglin region. And the question is am I certain
18	A. Okay.	18	that tale
19	Q. All right. Page 11 of your report,	19	BY MR. FROST:
20	second full paragraph starts, "In the Guangxi Province."	20	Q. You just told me that you've seen
21	A. Yes.	21	something that says Maanshan is the same geological
22	Q. If you look down the citation, you say,		formation?
l	after it, it says, "In Talc Geology, Resources,	23	
23	Production and Market Study, Guangxi Autonomous Region,'	24	
	asbestos was discovered in fractures of the talc ore		Q. I don't have it. Is that the one we just
25	aspestos was discovered in fractures of the taic ofe	25	looked at, though?
	Page 195		D 107
	rage 193		Page 197
1	body of the Maanshan talc deposit located in the	1	MS. SCOTT: No.
1 2	body of the Maanshan talc deposit located in the	1 2	_
	body of the Maanshan talc deposit located in the Shanglin region."		MS. SCOTT: No. MR. FROST: A different one. I don't
2	body of the Maanshan talc deposit located in the Shanglin region." Did I read that right, or close enough,	2	MS. SCOTT: No.
3	body of the Maanshan talc deposit located in the Shanglin region." Did I read that right, or close enough, anyway, on the pronunciations?	2 3	MS. SCOTT: No. MR. FROST: A different one. I don't have it, so, no. I mean, you guys can do it
3 4	body of the Maanshan talc deposit located in the Shanglin region." Did I read that right, or close enough, anyway, on the pronunciations? A. Yes.	2 3 4	MS. SCOTT: No. MR. FROST: A different one. I don't have it, so, no. I mean, you guys can do it during your time.
2 3 4 5 6	body of the Maanshan talc deposit located in the Shanglin region." Did I read that right, or close enough, anyway, on the pronunciations? A. Yes. Q. Did Johnson & Johnson ever use talc from	2 3 4 5	MS. SCOTT: No. MR. FROST: A different one. I don't have it, so, no. I mean, you guys can do it during your time. MS. O'DELL: If he wants to see the document and it's available to him
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Page 198 Page 200 1 the same? 1 anything to refute that statement? MS. SCOTT: Objection. 2 A. So Guangxi is an autonomous region. 3 I have nothing to refute or endorse. I Q. Okay. 4 A. And there are different mines within that 4 do know the geology of China is very chopped up. It's autonomous region. extremely complex. So you can have areas that are 5 6 geologically connected that are distant from each other. So, again, do you have anything that shows me that the formation at the Zhizhua Mine are the So Tianchen is a basin area in north central China. I same as the Maanshan mine? 8 have colleagues that work there, and essentially, there 9 No. I don't think so, or I'm unclear. are major displacements that occur. 10 I'm confused by the names. 10 So, again, I didn't have details of 11 All right. That's fine. Moving on on China, but, essentially, China is very complex, and you 12 page 11, the paragraph that starts about halfway down can have parts of the geology disperse. Yes, I was not 13 the page, "Beginning in July of 2004." aware that they were separated by geographic distance. 14 A. Uh-huh. That doesn't preclude that. 15 O. And then the next two paragraphs sort of BY MR. FROST: 16 preceding that, do you agree with me that these all 16 Q. Well, I was going to say without 17 relate to a mine visit in the Liboshikuang Mine of the speculating, your can't tell me whether or not the talc 18 **Shandong Province?** districts of Hubei and Shandong are the same as the talc 19 A. I'm confused by the names. I would need district in Guangxi, for example, correct? 20 MS. SCOTT: Objection. 20 to look at the document. 21 Q. Yeah. And Hubei and Shandong. Well, 21 BY MR. FROST: 22 here. We'll start with the first paragraph. "Beginning 22 Q. Sitting here today --23 23 in ... 2004, Rio Tinto began investigating talc Correct. But the statement as "Rio Tinto 24 operations and talc potential in the provinces of Hubei 24 began investigating talc operations and talc potential 25 and Shandong." Did I read that correctly? 25 in the provinces of Hubei and Shandong." Page 199 Page 201 A. Yeah. So, to my knowledge, that 1 Q. Yes. Just answer my questions, okay? paragraph is correct. 2 And, again, there's no evidence that talc ever came from 3 Q. But I didn't ask if it was correct. 3 Hubei and Shandong that was used in Johnson & Johnson 4 talcum powder. You, sitting here today, without 4 5 O. My question is: Do you agree with me 5 speculating, can't tell me that Johnson & Johnson ever 6 that Hubei and Shandong are different areas of China used talc that came from Hubei and Shandong, correct? 7 than Guangxi? A. Correct. 8 MS. SCOTT: Objection. 8 Q. And then it continues on, and it starts 9 A. I don't know. talking about the detailed visit to the Liboshikuang 10 BY MR. FROST: Mine in the Shandong province, correct? It's two 11 Q. Okay. Did you ever look up Hubei and paragraphs down. It talks about the field report and 12 Shandong and compare them to where Guangxi sits? "the report detailed a visit? 13 A. I don't remember. If I did, I -- you 13 The second paragraph on the bottom? 14 know, I got -- the nomenclature, the names were 14 Q. Yes. 15 15 confusing. So I did -- I try to look at Google Earth A. In Shandong? Okay. 16 and figure things out. But, again, I don't think there 16 Okay. And, again, it talks about a mine 17 was, like, a location map that was provided. The data that you have no evidence whatsoever whether or not this 18 from China was very limited. There's no -- I don't has any geological similarity to the Shandong province 19 think there's any GPS coordinates, which is another or the Guangxi province, correct? 20 20 thing that's kind of odd. Okay. Go ahead. MS. SCOTT: Objection. Q. If I were to represent to you that 21 Specifically, no. There is no data that A. 22 they're about 2,000 kilometers away from each other, the 22 was --23 Hubei and Shandong are coastal by Shanghai and Guangxi 23 BY MR. FROST: 24 is southern and internal and they're about So what I'm getting at here is I'm a 25 2,000 kilometers away from each other, would you have 25 little confused why we're talking about talc districts

Page 202 Page 204 1 upon which you have no data that are thousands of 1 MS. SCOTT: Objection. ² kilometers away from the mine actually being used by 2 BY MR. FROST: ³ Johnson & Johnson. 3 You don't know one way or the other; is Q. MS. SCOTT: Form. 4 that correct? MS. SCOTT: Objection. 5 A. Because just like in, as you pointed out 5 6 for the Appalachians, we have this very large district MS. O'DELL: Objection. With a hundred percent degree of 7 that extends hundreds of kilometers. Based on the 8 limited data that was available to me, it's likely that, certainty, sure. But, geologically, it makes sense that 9 essentially, talc deposits are genetically related in things would be related. BY MR. FROST: 10 some way. 11 BY MR. FROST: 11 Q. Okay. And that's based on what studies 12 12 have you looked at in China that show you can make the Q. Except that didn't you just tell me 13 without speculating -leap to say that these regions that you don't --14 MS. O'DELL: Excuse me. 14 A. That's --15 15 MR. FROST: Old on. O. Hold on -- that you don't know anything 16 MS. O'DELL: He was not finished. about are related? 17 17 A. So, basically, it's reasonable, you know, MS. SCOTT: Objection. 18 so if you have -- you know, you have a deposit of 18 I base that on, essentially, just the 19 something, and you have similar deposits of that same nature of tectonics on the planet. Essentially, there's 20 something, that it's reasonable that you would expect no peer review literature. 21 BY MR. FROST: 21 there to be some connection or relationship. That's 22 something that we do in geology all the time, 22 Q. Turn to page 12. It's the first full 23 essentially develop hypotheses as far as spatial paragraph. "I have reviewed multiple documents." It is ²⁴ relationships of things. the paragraph that starts there. Do you see where I am? 25 25 So, basically, the fact that there's A. Yes. Page 203 Page 205 1 60 percent white talc and 40 percent black talc with the Where is it? The third sentence. You 2 latter having obvious tremolite association, so that's, 2 know that "The practices and procedures defendants' talc 3 okay, one thing. And then, notably, it was associated 3 fall short of satisfying international standards of 4 with amphibolite-grade metamorphism. Therefore, 4 quality and purity." What international standards of quality and purity are you talking about here that you 5 Johnson & Johnson and Imerys had information regarding 6 tremolite's presence in the region. didn't cite? 7 And if you had indication of the presence A. So industrial mineral companies, 8 of something in the region, you know, you might exclude 8 basically, we used the peer-review literature, and 9 that or you would want to do further exploration to sort essentially, things are developed internally to assure 10 of constrain, as we mentioned earlier, with mining, we that you have variability or control, and so it's 11 want to define what's not there and what is there. commonly done that you run multiple x-ray diffraction analyses on materials, for example. So a company I work 12 BY MR. FROST: 13 Q. But here's where I'm going stop you. All closely with in Virginia, or have historically, they of this concerns a region that's thousands of kilometers analyze 200 samples a day, essentially, and they do that away from the region that's actually being mined, right? with powder diffraction and, also, XRF. 16 MS. SCOTT: Objection. 16 There's analytical technologies that 17 BY MR. FROST: exist that you can do rapid XRF analyses with a handheld 18 device, and that's been around since the early 2000s. Q. So what does any of this actually have anything to do, without speculating, about the talc So, basically, the peer-review literature is one general coming from the Zhizhua Mine in the Guangxi Province? 20 way of doing things. 21 MS. SCOTT: Objection. And then -- well, hold on. We'll start 22 A. The geology can be potentially related. there. What studies? Can you point me a single study 23 BY MR. FROST: that talks about the international standards of quality

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and purity that weren't met here?

MS. SCOTT: Objection.

25 you're speculating, right?

Q. See, we're talking about can be here, but

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Page 208 Page 206 1 So methods are communicated verbally in 1 you if you want. 2 industrial mineral companies. So, basically, by Yeah. I need to look at it, but I think 3 interacting with companies, I know, basically, that you 3 that might be related to gold mining, but Gy is 4 analyze things repeatedly, repeatedly trying to something that's used in general. 5 constrain the variability. Things aren't necessarily, Q. Is Gy a universally adopted standard for 6 as far as what individual companies do, they look to the mining practices around the world? peer-review literature to use or learn what analyses are A. I think it's commonly used. Again, every done and how they are executed. company has their own. 9 As far as the numbers of things, that's Why don't we look at Afewu, but, again, 10 something that's decided by companies, and basically, you agree with me that Gy is one. There are probably 11 using general statistical approaches, they want to know hundreds, if not thousands, of competing theories and 12 what the variation is. So companies that I work with, methodologies, right? 13 they commonly will analyze hundreds of, a couple hundred 13 MS. SCOTT: Objection. 14 samples a day or a week. 14 MS. O'DELL: Objection. 15 15 Other companies I know, they have I don't think that's an accurate 16 dedicated labs that basically analyze hundreds of 16 statement. 17 thousands of samples a week, and it's expected that they BY MR. FROST: maintain that level because, eventually, they can get 18 But it's certainly not the only one, Q. sold or bought, so they want to be able to prove the 19 right? reserves and the historical thing. So that's -- that's 20 Others exist. kind of the international standard is sort of multiple 21 So you can't tell me that Gy is the universal standard for talc mining, right, and that 22 things. It's by experience. 23 Q. Here's what I want to get at. If I want that's the standard that companies have to follow? 24 to know what the international standards of quality and 24 That's the, quote, international standard of quality and 25 purity are, you're telling me there's not any document I 25 purity? Page 207 Page 209 1 can go to, any regulation or anything out there. I'm MS. SCOTT: Objection. 1 2 trying to get the basis for your opinion here, and the 2 I think it's relevant. A. 3 basis for your opinion here is Dr. Krekeler had told me 3 BY MR. FROST: 4 it's wrong and here's why, and you can't point to any Q. We'll mark Afewu. We talked about Afewu. 5 study --So if you're mining --A. 6 So --6 Q. There's not a question pending, sir. 7 7 MS. O'DELL: Let him finish. Okay. Sorry. 8 THE WITNESS: Okay. 8 MS. O'DELL: This is 20? 9 9 BY MR. FROST: MR. FROST: 18. 10 Q. -- regulation, mine document, anything 10 COURT REPORTER: 19. out there to support your basis. It's just I, Mark 11 MR. FROST: 19? 12 Krekeler, am telling you this. You should believe me. 12 COURT REPORTER: Yes. 13 MS. SCOTT: Objection. 13 (Exhibit 19 was marked for So Gy and the reference. Gy 79 is 14 identification.) 15 something that's used sampling of particulate materials 15 BY MR. FROST: there in practice. 16 Q. On the first page, it's page 299 on the 16 17 BY MR. FROST: first column. It's the paragraph that starts, "An essential condition of any sample." 18 Q. Let's talk about Gy. Gy is about gold 19 19 mining, right? Okay. I found the paragraph. 20 A. Gy is about sampling of particulate 20 Okay. About halfway through, it starts 21 materials. talking about the Gy paper. "A number of approaches Related to gold mining, right? have been proposed to address these problems. The most 22 O. 23 A. I don't recall specifically. Was it 23 notable one is the work of Gy." Do you see where I am? 24 Afewu? I believe the Afewu. 24 A. 25 25 If you look at Afewu, I can mark that for Q. After that, it says, "Most practitioners

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- $\ensuremath{\mathtt{1}}$ have used this model for gold ores, though, without much
- 2 fulfillment in the results." Am I reading that
- 3 correctly?
- 4 A. You're reading what they've said.
- 5 Q. Okay.
- 6 A. But, yeah.
- 7 Q. And you agree with me that there are laws
- 8 and regulations that relate to mining standards, how
- 9 mining has to be done, things of that nature, correct?
- 10 A. There are -- there's a code of mining
- 11 regulations. To my knowledge, there's not a specific
- 12 code as far as what's required for sampling. It's my
- 13 experience that, essentially, it's based on indications
- 14 from peer-reviewed literature, the concerns the company
- 15 has had as far as maintaining quality of their product,
- 16 so these are the standards that are set. Some companies
- 17 will have, essentially, internal protocols and standards
- 18 that are applied, and they're international companies,
- 19 so this is applied by international.
- Q. So you don't believe there are any
- 21 regulations that relate to any miners that talk about
- 22 requirements of sampling?
- MS. SCOTT: Objection.
- A. At this point, I don't remember. I
- 25 don't --

- Page 212

 1 Gy paper, and he talks about running Gy analysis of the
- 2 samples to determine whether or not they're
- ³ representative. Is that a fair sort of, really high
- 4 level synopsis of what he's talking about?
 - A. Yes.
- 6 Q. And in forming your opinions, I take it
- ⁷ you rely -- I mean, we've talked about Gy. You're
- 8 relying on the Gy theory, right? Is it a theory? I
- 9 don't know what the right word to call it is. Is it
- 10 mine theory?
- 11 A. It is an approach.
 - Q. Mine approach?
 - A. Yeah. It's very dense mathematically.
- Q. I will agree with you there. And you're
- 15 effectively relying on the Gy approach in forming your
- 16 opinions about the mining sampling practices, correct?
- 17 A. It is one of them. It is one approach,
- 18 yes.

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13

- Q. And Afewu and Lewis is another one you
- 20 cite, too?
- A. It's another example.
- Q. And Afewu and Lewis also is another
- 23 mathematical geostatistical computation to determine
- whether or not sampling is adequate and representative,

Page 213

25 correct?

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Page 211

- 1 BY MR. FROST:
- Q. "I don't know" is a fine answer, sir.
- 3 A. Yeah. I don't know with certainty.
- 4 Q. Okay. And I think we established this
- 5 morning, you're not a regulatory expert? You're not a
- 6 mine regulations expert?
- 7 A. Yeah.
- 8 Q. Okay. So at this point, you just don't
- 9 know. Have you ever heard of the organization JORC,
- 10 J-O-R-C?
- 11 A. What's that?
- Q. JORC, J-O-R-C. I think it's the Joint
- 13 Regulatory Commission, something like that.
- 14 A. No, I have not.
- Q. Do you recall seeing, in several of the
- 16 Imerys documents, that they were doing sampling to
- 17 various JORAC regulatory specifications?
- A. No, I do not remember seeing that.
- Q. And you have no idea what any of the
- 20 sampling regulations that they're applying for would be?
- 21 That's correct?
- MS. O'DELL: Object to the form.
- A. Yeah. I'm not familiar with that.
- 24 BY MR. FROST:
- Q. While we're talking about Gy, I read the

- A. Yes. That's another approach.
- Q. Have you actually run any of the
- 3 geostatistical calculations in this case to determine
- 4 whether or not the sampling that was being done by
- 5 Imerys and Johnson & Johnson is adequate?
- 6 MS. SCOTT: Objection.
- A. No, I have not. But I do note that I did
- 8 not see evidence of it either.
- 9 MR. FROST: Move to strike. No question
- 10 was pending.
- 11 BY MR. FROST:
- Q. While we're on mining, let's talk about
- 13 it a little bit. Do you agree with me that mining
- 14 companies do not mill -- sorry. Let me try again. I
- used the wrong word. Do you agree with me that mining
- 16 companies do not drill the entire deposit all at once?
- -- companies do not arm the entire deposit an at once
- MS. O'DELL: Object to the form. Do you
- 18 mean --
- 19 BY MR. FROST:
- Q. When they're doing core sampling?
- A. They will -- it depends. So if there's
- 22 field indications that things are looking good and they
- want to establish things, then there would be a reason
- 24 to drill the entire deposit if it's small. But, yeah,
- 25 if you have a large deposit, you would drill that in

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1 phases.

- Q. And you'd sort of do it as the mine
- 3 develops, right, as the -- as you're following the
- 4 deposit? You -- a really untechnical way of saying it
- 5 is, effectively, you're drilling ahead of where you are
- 6 so you know where you can keep going, right?
- 7 MS. SCOTT: Objection.
- 8 A. It -- sometimes it's more complex than
- 9 that. So, basically, people gain investment for
- 10 exploration and it's -- you know, the investors are set
- 11 on doing things one particular way because of what they
- 12 believe. So there's variation in that.
- Q. Okay. And you agree that additional --
- 14 you know, one of the reasons you do additional coring,
- 15 additional drilling, is to further refine the mine plan,
- 16 the mine schedule, things like that?
- 17 A. Yes. So, often, coring will be done
- 18 every day in certain situations. So that's the case in
- 19 some palygorskite deposits in Georgia, and that's also
- 20 the case in Brown Mountain Mine and other, other
- 21 situations, yes. They'll drill daily and produce lots
- 22 of core.
- Q. And, ultimately, mine operators are
- 24 drilling a mine site in order to determine what the ore
- 25 body itself actually looks like, right?

- Page 216
- factor is the scale of the geologic features that are
 involved in the deposit. So, generally, you want to
- ³ have a core density such that you can capture those
- ⁴ scales of features.
- ⁵ Q. And that's ore deposit -- by "ore
- 6 deposit," depending, right, what you have to do to
- ⁷ capture those features? Effectively, every mine is
- ⁸ different; is that a fair synopsis?
 - MS. SCOTT: Objection.
 - A. The -- it depends on the local geology,
- but it still must be representative based on the
- 12 features you're trying to capture.
- 3 BY MR. FROST:

10

16

21

- Q. Okay. I think we're saying the same
- 5 thing. You're just adding a lot more words, right?
 - A. Okay.
- Q. But it depends on the local geology what
- 18 the deposit looks like because every deposit is
- ¹⁹ different, right?
- MS. SCOTT: Objection.
 - A. You can have similar deposits, but, yeah,

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- every deposit is in a different location.
- 23 BY MR. FROST:
- Q. Sure. And there are different shapes and
- 25 sizes, right?

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- A. As well as other areas of concern. So I
- 2 gave the example on the Stebbins Hill for Brown
- 3 Mountain. And they, you know, they have extensive
- 4 amounts of core. They filled an entire high school,
- 5 abandoned high school, with core.
- 6 Q. Where you mine -- or sorry. Where you
- ⁷ drill, when you drill, what angle you're drilling at, et
- 8 cetera, all these are very complicated. You know, in a
- ⁹ complicated ore body, where you drill, when you drill,
- 10 the angles you drill at, these are all dictated by lots
- 11 of factors, including topography, access to certain
- 12 areas, things of that nature. Do you agree with that
- 13 statement?

14

- MS. O'DELL: Objection.
- A. Not necessarily. You may -- people want
- 16 to essentially have a good, even distribution so they
- 17 try to drill on a grid, you know, if possible.
- 18 BY MR. FROST:
- Q. Okay. As you said, not necessarily. It
- 20 all depends, sort of, what you're seeing and what you're
- 21 looking for, correct? There's no one way to drill core
- 22 and ore body, right?
- A. There's multiple ways, but, you know,
- 24 using -- essentially having something that is
- 25 representative is reasonable. And one determining

- A. Yes.
- 2 Q. So because of that, you have to drill
- 3 appropriate to the deposit that you're coring, correct?
 - A. Yes.
- 5 O. And that's a determination that's usually
- 6 made by the on-site geologist or by the company that's
- 7 mining. You know, hopefully, they're consulting with
- 8 somebody who understands the geology to determine where
- 9 to drill. Is that also a fair statement?
- MS. SCOTT: Objection.
- 11 A. Ultimately, the company is responsible
- 12 for how it drills, yes.
- 13 BY MR. FROST:
- 14 Q. Okay. Turn back to page 12 of your
- 15 report. It's the third paragraph. You note that, "The
- 16 practice of hand sorting is not acceptable in the United
- 17 States." Do you have any law or regulation that you're
- 18 pointing to that says that's inappropriate?
 - MS. SCOTT: Objection.
- A. No. But, you know, the companies I work
- 21 with wouldn't do that with something of this complexity.
- 22 BY MR. FROST:
- Q. And you've never worked with talc before,
- 24 right? You've never worked with a company that mines
- 25 talc?

19

Page 218 Page 220 1 A. Correct. 1 bottom of 5147 -- I'll go two lines up. I'll start 2 0. Okay. The next paragraph down, the -- I 2 there. There's some stuff above it, but it starts, ³ believe this is an email. Maybe I'll just mark the 3 "During unloading, a representative industrial sample document. It might be easier. 4 (at least 25mt) is processed in the plant at various 5 MR. FROST: We'll mark this one. I think 5 meshes and sent to our central Denver lab to be analyzed 6 6 for main specs (whiteness, mineralogy, chemical we're on 20. 7 composition, major elements and traces). Fibers 7 COURT REPORTER: 20. 8 (Exhibit 20 was marked for 8 investigation is carried out systematically. The lot is 9 quarantined, waiting the lab results." Don't you agree identification.) with me that's the most important piece of what Cutler 10 BY MR. FROST: 11 Do you see where you are in your report 11 is saying there --Q. 12 MS. SCOTT: Objection. 12 on page 12? 13 BY MR. FROST: A. I'm checking to see. I'll go back. 13 -- for purposes of your opinion that it 14 O. Sorry. 14 15 does not guarantee the absence of fibers or asbestos and A. Go back to 12. So 517. Okay. 16 fibrous talc? 0. And this is -- you're quoting here from an email --17 MS. SCOTT: Objection. 17 18 18 So when the cargo arrives at destination, Α Okay. A. 19 -- from Mr. Cutler? Do you see where we so that's after it's been hand picked, right? 0 BY MR. FROST: 20 are? 21 21 O. Sure. What I'm saying here is: You use A. Yes. 22 the quote you have above as a basis for your --O. Okay. So you quote a portion of this 23 So they're not -- I'm stating --23 email from Mr. Cutler, right? And then the next paragraph down, you go, "Cutler goes on to say, 'In 24 Q. Let me finish, sir. 25 principle, the inspection is enough to guarantee the A. Okay. I'm sorry. Sorry. Page 219 Page 221 1 requested specs to insure no fibers." And then, after Q. So you use the quote above here as the 2 that, you make the opinion, "That practice falls below 2 basis for your statement that the practice falls below 3 the standards of quality control in mining operations in 3 the standards of quality in mine operations in the 4 the United States, and it does not guarantee the absence 4 United States and does not guarantee the absence of 5 of fibers, such as asbestos or fibrous talc." Did I 5 fibers such as asbestos and fibrous talc, but left out 6 read that correctly? 6 of the quote you're taking from the email is the 7 ⁷ specific part of the testing that talks about the A. Yes. 8 testing for fibers in the talc. Am I correct or Q. Okay. If you look up at the quote from 9 Mr. Cutler's email and if you turn to the email itself, incorrect? 10 it's the bottom of page 5147. This is not a complete 10 A. I did not include that portion in the quote from Mr. Cutler's email, correct? 11 quote. 12 MS. SCOTT: Objection. 12 O. Okay. Let's move on. 13 A. Let me find -- so where is it on 5147? 13 A. BY MR. FROST: 14 Q. All right. Moving on. 15 15 Α Okay. Q. It's at the bottom. 16 16 MS. SCOTT: If he's not done with his MS. SCOTT: It's in B. 17 17 BY MR. FROST: answer, let him finish his answer. 18 18 Yeah, it's in B. A. But, yeah, I'm not. So it is -- you O. 19 So "In principle, this inspection is know, if you're mining material and then you have a 20 enough to guarantee the requested specs and insure no point of shipment, you would want to test that at that 21 fibers." point of shipment in case you find something later. You Q. Okay. But do you see above that your 22 would be able to identify where in the supply chain an 23 block quote? So what I find interesting is the part you issue occurred. So is this -- you know, is this shipped

24 left out of Mr. Cutler's email is actually the part that

25 talks about the testing for fibers. If you look at the

24 by a ship, correct? Right? So multiple things can be

25 put into a ship cargo. You can have a whole crate of

Case 3:16-md-02738-MAS-RLS Document Filed 06/17/19 Page 58 of 86 PageID: er, Ph.D. Page 222 Page 224 1 asbestos, you know, from Indiana or Russia or some other 1 A. Yes. Okay. What is the basis that grinding 2 place or some other material that is mixed in. So, to Q. 3 me, it really does make sense that at the stage of when 3 the sample before testing will make it much more difficult to --4 it leaves the port, you would want to have some quality 5 control so --A. So talc is a phyllosilicate mineral. 6 BY MR. FROST: 6 It's a two-to-one layer clay. Essentially, the 7 structure is held together by long hydrogen bonds and it Q. Here's my question. Isn't that exactly 8 the part that you left out of the quote? Isn't it is mechanically very soft. So, basically, disingenuous that you left out the fibrous talc? phyllosilicates have essentially delicate structures and 9 10 A. As I read it, as I read it -they need to be prepared in specific ways so grinding is 11 MS. O'DELL: Dr. Krekeler, he's not done. a rotary motion and what that does is -- the crystal 12 A. Oh, I'm sorry. Sorry. structure is shown here for talc. 13 13 BY MR. FROST: So what that does is it takes these 14 Don't you agree with me that it's two-to-one layers. When you grind, you displace, you 15 disingenuous to leave out the specific portion of the know, essentially, a rotation of the crystal structure, quote that talks about the testing that's done once the and that rotation of the crystal structure basically talc arrives at port in Houston when you're making, destroys the crystallographic coherency through the clay 18 based on that quote, the opinion that it does not particle. So if you are -- essentially, for x-ray guarantee the absence of fibers and falls short? analysis, you're supposed to crush materials. So crush 20 MS. SCOTT: Objection. Misrepresents. is specifically an up-and-down motion. And, basically, 21 Yeah. I say it's in the report for the it's easy to do with talc. You crush it in this up-and-down motion, typically in an agate mortar and 22 reasons I provided. 23 BY MR. FROST: 23 pestle. Q. Okay. All right. Let's move on. 24 24 And then so, basically, what happens is 25 MR. FROST: Actually, if you want, I 25 you also have other potential contaminants such as Page 223 Page 225 don't know how long we've been going. This is 1 chrysotile. Chrysotile is a one-to-one layer 1 2 probably a good time for a break. I'm changing ² serpentine. It is coiled because the octahedral sheet 3 and the tetrahedral sheet don't match up. So there's 3 subjects. 4 MS. SCOTT: Sure. Great. 4 other serpentines such as antigorite, lizardite, 5 VIDEOGRAPHER: We are now going off crocidolites, other things like that.

6 record. The time is 4:12. 7 (A recess was taken from 4:12 to 4:38.) 8 VIDEOGRAPHER: We're now back on record, 9 and the time is 4:38. 10 BY MR. FROST: 11 I'm going to move back to page 12 --

12

13 -- of your report. The last full

paragraph on page 12, sir, it's a document entitled

15 "Quality Control."

16 Okay. A.

17 Okay. And you note, "This document

18 includes procedures related to Guangxi Number 1 and

Number 2A, the talc ore purchased by Defendants for use

20 in Johnson's Baby Powder and Shower to Shower products.

21 Again, the procedure calls for samples to be ground

22 prior to testing a protocol that will disrupt the

23 physical properties of the talc ore, making detection of

24 harmful contaminants, including asbestos, much more

25 difficult." Did I read that right?

So what needs to happen is, again, that needs to be prepared in a crush method, not a rotary,

not ground. So grinding -- ground, grinding -- those

words have specific meanings in the context of

phyllosilicates. It's been well, recognized, and I

provide several references elsewhere in the report.

12 So essentially what happens is x-ray

diffraction has detection limits, and for many

materials, such as quartz, that are very crystalline,

your detection limit is approximately about a tenth of a

weight percent, and that's generally understood. That's

17 a long-standing detection limit.

Clay minerals, in general, the

phyllosilicates, in general, those materials typically

have a detection limit that is at least a few weight

percent, in part because they start off as essentially

poorly crystalline material. So if you take a talc or a

chlorite and you compare that to another, you know, a

mineral such as a pyroxene, the overall crystallinity of

25 the pyroxene is much, much more than the talc or the

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- 1 chlorite. So and then there's also many issues with --
- 2 the minerals are just very sensitive, and they naturally
- 3 have disorder.
- 4 For example, chlorite theoretically can
- 5 have 1,024 different arrangements of the layers of atoms
- 6 in the structure, two-layer structure. So, basically,
- 7 the crushing and grinding, you can grind -- if you have,
- 8 let's say you have 4 percent chrysotile and 96 percent
- 9 talc and you have that sample and you grind it, and
- 10 essentially, you are destroying the crystal structures
- 11 of both, and you only have, essentially, a 1 percent or
- 12 so that is still crystalline or maybe none of it is
- 13 crystalline.
- You can grind, actually do experiments
- 15 and grind things to be amorphous. We did this when I
- 16 was a Ph.D. student. He had us hammer home the point.
- 17 But, basically, so the net effect is is when you grind
- 18 stuff, you deflate the detection limit of materials that
- 19 are there.
- It's already a problem -- you know,
- 21 chrysotile is already problematic because, essentially,
- 22 the shape of it. So it's a difficult material to work
- 23 with. When you grind those materials, you will end up
- 24 with, essentially, stuff that won't diffract. So,
- 25 therefore, with powder x-ray diffraction, you cannot be

- 1 crush and smear, correct?
- MS. O'DELL: Objection.
- 3 A They would be far less -- I think the
- 4 proper thing to say is they would be far less
- 5 susceptible to reduction and crystallinity, but, yeah,
- 6 the chrysotile would be.
- ⁷ BY MR. FROST:
 - Q Okay. But, again, chrysotile is not --
- 9 because of the closeness to talc, XRD is not the primary
- way of identifying chrysotile, correct?
- 11 A. Oh, no.

12

15

- Q. I'm talking about specific to talc here.
- A. Were -- I'm sorry, was the question can
- 14 you -- the difference --
 - Q. Not can you, no.
- A. -- between talc and chrysotile?
- Q. Okay. Let me ask it another way. In the
- 18 testing that is done of talc to determine whether or not
- 19 there is asbestos, the way -- the test for chrysotile,
- 20 you'll agree with me, is PLM, correct?
- A. I understand that powder x-ray
- 22 diffraction is the primary screen.
- O. That's the first screen, correct?
- 24 A. Yes.
- 25 Q. Okay.

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- 1 assured that what you're measuring that you detect. So
- 2 that's the issue with grounding.
- Q. Okay. So let me start here. Amphibiles
- 4 aren't phyllosilicates, correct, amphibile minerals?
- 5 MS. O'DELL: Amphiboles.
- 6 BY MR. FROST:
- 7 Q. Or amphiboles.
- 8 A. They're part of the biopyriboles.
- 9 Q Okay.
- 10 A So but they are not a --
- Q. It's not phyllosilicate, correct?
- 12 A Correct
- Q. And, again, the point of XRD, the
- 14 testing, is to determine whether or not there are
- 15 amphibole particles in the talc. Is that also correct?
- MS. SCOTT: Objection.
- 17 A. Yes.
- 18 BY MR. FROST:
- Q. Okay. So what you're talking about here
- 20 is we'd ruin the talc and it would be hard, but we don't
- 21 care because we know talc is in there. What we're
- 22 looking for are amphiboles, right? So crushing isn't
- 23 going to be a problem with identifying the amphiboles,
- 24 because they aren't subject to smear and amorphousness,
- 25 if that's the right word, but becoming amorphous through

A. And then if -- then if there's something

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- 2 that's detected, it then goes to PLM. And then if is
- 3 something is detected, it goes to TEM. So if you
- 4 don't -- if you're not -- if you're having, essentially,
- 5 a false negative because you've ground away the
- 6 chrysotile, you would not -- you know, as things were
- 7 described, you wouldn't go on to the other techniques,
- 8 but you would potentially have tremolite.
- 9 Q. Yes. And you're actually going -- again,
- 10 you've looked at Longo's testing, right?
- 11 A. Yes.
- Q. So would you invalidate Longo's testing
- 13 because he crushes and grinds the samples before putting
- 14 them through his various tests, including XRD?
- MS. O'DELL: Objection.
 - A. I -- there might be some differences, but
- 17 overall, my review of Longo's report, I think it's fine.
- 18 BY MR. FROST:

16

24

25

- Q. Okay. And, again, in looking through
- 20 Longo's report, despite that he crushed and smeared, did
- 21 he come up with any amorphous -- you know, did he
- 22 identify any amorphous figures within the talc?
- MS. SCOTT: Objection.
 - MS. O'DELL: Object to form.
 - A. I don't remember specific. I remember

Page 230 Page 232 1 seeing lots and lots of TEM images by -- there's a lot 1 or done by anybody else, have you ever seen any problem ² of TEM images. I don't remember specifically. 2 with either smear or amorphous? 3 MS. SCOTT: Object to the form. ³ BY MR. FROST: Q. You also agree with me that the amphibole 4 Yeah. By the nature of the test, as it's 5 been described, you know, you can't, you can't see -- I 5 content that you're looking for in baby powder is 6 actually very small. We're talking about the micron 6 want to say you can't see something that is not, that 7 you can't detect. So amorphous material doesn't level, correct? 8 diffract x-rays. So x-rays arise when we have coherent MS. O'DELL: Object to the form. crystallinity that occurs. And then I'm trying to --9 A. I'm sorry. What? BY MR. FROST: 10 BY MR. FROST: 11 We're talking about particles that are 11 Q. I understand, but let me stop you there. 12 You would see amorphous on TEM or SEM, wouldn't you, 12 measured by microns, not --13 A. For? when you were looking at images of the talc after it's 14 Q. -- inches or centimeters for the -been prepared for a sample? 15 MS. O'DELL: Objection. 15 A. For what context? 16 The amphiboles --16 The -- only if you're, only if you're Q. looking for it. So you need to have electron 17 A. The amphiboles? 18 diffraction data that -- you said if you're only looking Q. -- that would be located in ground talcum 19 for the asbestos materials so you're looking for powder. crystalline materials. You would not necessarily be 20 I'm sorry. I'm unclear on the question. A. 21 looking for amorphous. So I don't think Longo was Can I --22 tasked with finding amorphous, amorphous Q. I'll just ask it again. 23 Well, I would prefer to read, if that's phyllosilicates. I think he --A. 24 okay. BY MR. FROST: Q. But I'm confused. Doesn't Longo 25 Well, I'd prefer to reask you the, ask O. Page 231 Page 233 1 you a different question, sir. 1 categorize every particle that was on the TEM grids? MS. O'DELL: Objection. In what way? 2 A. Okay. All right. Good. 3 MS. O'DELL: He can ask a different MR. FROST: He accounts for them on his 4 question. count sheets. BY MR. FROST: BY MR. FROST: 6 Q. So, again, my question is: The Q. If you don't know, sir, that's fine, too. 7 amphiboles that we care about here, the ones we're I don't remember. finding in the testing of talcum powder, are in microns 8 Okay. That's fine. We'll move on. 9 of size. They're tiny, correct? Now, sir, are you aware that talcum 10 They can be, yes. powder, cosmetic talcum powder specifically is regulated 11 Okay. And because they're so small and 11 by the FDA? 12 small by volume, grinding and crushing really isn't a 12 MS. SCOTT: Objection. 13 problem because you're not going to affect the 13 A. I know they have looked at it. I don't crystalline structure of something that small when you know if they've -- I'm not a regulatory expert. So I 15 grind it. Do you also agree with that? just know that they've looked at it. I don't know that 16 MS. SCOTT: Objection. there's a study on talc. 16 17 A. Not necessarily. It depends on the 17 BY MR. FROST: 18 specific methods of grinding. 18 Q. I'm not talking about regulations, 19 BY MR. FROST: regulations and testings --20 Q. And have you seen any evidence in any of 20 Oh, okay. I'm sorry. Yeah. No. 21 the testing that you've looked at in this case that 21 Okay. All right. Are you aware that 22 grinding and crushing has caused a problem with smear or there is an FDA sanction testing model called J4-1? 23 amorphous -- I guess it would become an amorphous 23 No, I'm not.

24

Q.

24 particle. I don't know what the right second term would

25 be. But in any of the testing you've seen done by Longo

Okay. And you don't know whether or not

25 the companies are using J4-1 to test their product

Page 234 Page 236 1 because that's what's required of them? 1 for that statement, correct? 2 MS. O'DELL: Object to form. A. Yes. 3 MS. SCOTT: Object to the form. Q. So we'll start at the first cite, which 4 A. No. 4 is Furtron or Furcron, F-u-r-c-r-o-n, and others, 1947, BY MR. FROST: deposits of Murray -- talc deposits in Murray County, 5 Q. Okay. Sir, do you agree with me that 6 Georgia, Georgia State Division of Conservation 6 Department of Mines, Mineralogy, Mining and Geology? compliance with legal standards is an important consideration in determining if a mine is being operated Okay. You agree with me that they're 9 correctly? Q. 10 looking at Georgia mine formations, correct? 10 MS. SCOTT: Objection. 11 Yes, in general. 11 A. Yes. A. 12 12 BY MR. FROST: 0. And that would -- they'd have nothing --13 no opinions or no specifics of what the actual ore body Q. And as we said before, you just don't 14 know one way or the other whether or not -- well, I in Vermont looks like or Italy or China, correct? 15 guess, what regulations govern these talc mines and MS. SCOTT: Objection. 16 whether or not the companies were abiding by those 16 A. Correct. 17 regulations. Is that fair? BY MR. FROST: 18 MS. SCOTT: Object to the form. Q. Okay. The second citation here is Berg 19 BY MR. FROST: 1977, and I think that was the one we identified earlier 20 that was a mis-cite? Q That's not your area of expertise? 21 21 Yes. I think it relates to Montana. Yeah. I'm not a regulatory expert. A. 22 Turn to page 39, I believe, of your 22 All right. Tab -- the next one is 23 Mark -- where is it? Sandrone and Zucchetti? 23 report. One, two, third paragraph down, it says, "Examination of data from several mines." 24 A. So --25 On page 39. "Examination of data from 25 (Exhibit 21 was marked for Page 235 Page 237 1 several mines," that paragraph? identification.) Q. Yes, that paragraph. Let me just orient ² BY MR. FROST: 3 myself. I apologize. Q. So it seems like this is talking about All right. You note here, "Examination the Italian deposit. Yes. So, yeah. 5 of data from several mines shows that ore bodies are Α 6 very complex, with mixtures of several rock types, You go one, two, three, four. 7 including those likely to have the presence of asbestos MR. FROST: Oh, I apologize I thought he 8 and heavy metals. These rock types are intimately mixed 8 had the paper in front of him. 9 with talc ore. The variation of the bodies of rock 9 COURT REPORTER: No. 10 differs and significant features may be only one foot 10 MR. FROST: Oh, I'm sorry. 11 thick or less." Correct? 11 BY MR. FROST: 12 12 A. Yes. That is what it says. I'll reask the question. She didn't get 13 Q. Are you talking about the features there 13 it. of the talc ore itself or are you talking about the So the question was: This paper appears 15 other minerals that might be in the geological to be dealing with the Italian mines, correct, the 16 formation? 16 Italian deposit? 17 17 A. So I'm talking about the ore as a whole, A. Yes. Can I state a clarification? 18 including, you know, lithologies that are rich in talc 18 O. 19 and not as well as the minerals and all the constituents 19 So this is actually meant as an 20 of ore. introduction paragraph. So several mines, meaning So you're talking about the ore body? I several mines of talc, in general. O. 22 just want to clarify what we're talking about there. 22 Q. Okay. 23 All right. 23 So that sentence does not specifically 24 A. relate to -- as written doesn't necessarily relate to Yes. 25 mines in Vermont but just in general. And that's Footnote 36, is the support

1 Q. Okay. 2 A. So-' 3 Q. So it's not a statement 4 A. The thing that's gone, the Berg paper 5 shows really intimate associations of, you know, 5 small-scale features. So it's meant to be general. 7 Sorry. 8 Q. Okay. So these aren't talking about any 9 of the mines that we're specifically talking about any 10 of the mines that we're specifically talking about any 11 of the Vermont mines, the Itulian mine and the Chinese 12 mines, the one ast issue on page 7 and 8 13 Q of your report? 14 A not refer to those, yes. 15 Q Turn to page 41 of your report, please. 16 The very the sentence that goes from 41 to 42. 17 'Composite sampling is a flawed methodology to 18 adequately' monitor - sorry. It's a typo, but 19 "adequately monitoring for assetsors and toxic metals and 20 should be reserved for products not intended for human 21 consumption or cosmetic use." And then you cite to the 22 Afewu paper? 23 A. That is an editorial error. The Afewa 24 reference is there as its own parenthetical sentence. 25 Q. So you agree with me Page 239 2 A. That has a streaming, a est streaming reference. It's cited where it's just 3 and Lewis don't talk about testing for heavy metals or 4 whether or not ores are meant for human consumption? 5 A. Corect, yoth. That's a streaming, a 6 streaming reference. It's cited where it's just 7 stand alone. There's a period before it and a period after it. Sory about that. 9 Q. Diay, So you agree with me that Afewu 3 and Lewis don't talk about testing for heavy metals or 4 whether or not ores are meant for human consumption? 5 A. Corect, yoth. That's a streaming, a 6 streaming reference. It's cited where it's just 7 stand alone. There's a period before it and a period after it. Sory about that. 9 Q. Have you ever seen the expert report done 15 by Dr. Cook in this case? 14 Q. Have you ever seen the expert report done 15 by Dr. Cook in this case? 15 A. Po. I don't it's a typo. 9 A. I believe so. 16 A. Roo't it's a typo. 17 A. I believe so. 28 Q. Okay, I'll note t		Mark 8259 Ke		er, Ph.D.
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4 A. The thing that's gone, the Berg paper 5 shows really intimate associations of, you know, 6 small-scale features. So it's meant to be general. 7 Sorry. 8 Q. Okay. So these aren't talking about any 9 of the mines that we're specifically talking about here: 10 The Vermont mines, the Italian mine and the Chinese 11 mines, the ones at issue on page 7 and 8 12 A. That sentence does 13 Q. of your report? 14 A not refer to those, yes. 15 Q Turn to page 41 of your report, please. 16 The very- the sentence that goes from 41 to 42. 17 "Composite sampling is a flawed methodology to a adequately monitor- in sorry. It's a typo, but 19 "adequately monitor- in sorry. It's a typo, but 19 "adequately monitoring for asbestos and toxic metals and consumption or cosmetic use." And then you cite to the 22 Afewu paper? 23 A. That is an editorial error. The Afewu reference is there as its own parenthetical sentence. 25 Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or 4 whether or not ores are meant for human consumption? 2 Q. Okay. So you agree with me that Afewu and Lewis don't talk about testing for heavy metals or 4 whether or not ores are meant for human consumption? 3 A. Thou's a typo. 4 That's a transming, a streaming reference. It's cited where it's just 7 stand alone. There's a period before it and a period a after it. Sorry about that. 9 Q. That's okay. All right. I'm going to 12 turn to the various charts now that are in your report. So as a preliminary question, did you review each of the 2 documents that are listed in the various documents? 14 A. Thocked at all these documents. It doesn't surprise me 8 that 15 by Dr. Cook in this case? 15 Q. Have you ever seen the expert report done 15 by Dr. Cook in this case? 16 A. Yeah. I have seen it recently, yes. 17 Q. It was after you were done drafting your imitial and supplemental reports? Do you know? 18 imitial and supplemental reports? Do you know? 19 A. I believe so. 10 Q. Okay. I'll note that Dr. Cook se	1	Q. Okay.	1	
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23 A. We looked at the same data. I'm sorry. 23 And that relates to sample WMI 85-28 and	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just stand alone. There's a period before it and a period after it. Sorry about that. Q. That's okay. All right. I'm going to turn to the various charts now that are in your report. So as a preliminary question, did you review each of the documents that are listed in the various documents? A. I looked at all these documents, yes. Q. Have you ever seen the expert report done by Dr. Cook in this case? A. Yeah. I have seen it recently, yes. Q. It was after you were done drafting your initial and supplemental reports? Do you know? A. I believe so. Q. Okay. I'll note that Dr. Cook seems to have the exact same lists that you do. Did you provide	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record, and the time is 5:10. BY MR. FROST: Q. All right, sir. If you look at page 21 of your report, do you see the sample with the date 8/22/1985? VIDEOGRAPHER: I'm sorry, Counsel. Can you put that notebook lid down? MR. FROST: Oh. VIDEOGRAPHER: Thanks. MS. O'DELL: 21. A. 21, and what was the line on the table? BY MR. FROST: Q. 8/22/1985. A. Yes.
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Q. Okay. I was going to say, did you 24 WMI 85-30?	66 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just stand alone. There's a period before it and a period after it. Sorry about that. Q. That's okay. All right. I'm going to turn to the various charts now that are in your report. So as a preliminary question, did you review each of the documents that are listed in the various documents? A. I looked at all these documents, yes. Q. Have you ever seen the expert report done by Dr. Cook in this case? A. Yeah. I have seen it recently, yes. Q. It was after you were done drafting your initial and supplemental reports? Do you know? A. I believe so. Q. Okay. I'll note that Dr. Cook seems to have the exact same lists that you do. Did you provide these to him? A. We looked at the same data. I'm sorry.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record, and the time is 5:10. BY MR. FROST: Q. All right, sir. If you look at page 21 of your report, do you see the sample with the date 8/22/1985? VIDEOGRAPHER: I'm sorry, Counsel. Can you put that notebook lid down? MR. FROST: Oh. VIDEOGRAPHER: Thanks. MS. O'DELL: 21. A. 21, and what was the line on the table? BY MR. FROST: Q. 8/22/1985. A. Yes. Q. I'll move this binder, so it's out of the way. And that relates to sample WMI 85-28 and
25 provide the charts that you created to him? 25 A. Yeah, as indicated on the chart.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	whether or not ores are meant for human consumption? A. Correct, yeah. That's a streaming, a streaming reference. It's cited where it's just stand alone. There's a period before it and a period after it. Sorry about that. Q. That's okay. All right. I'm going to turn to the various charts now that are in your report. So as a preliminary question, did you review each of the documents that are listed in the various documents? A. I looked at all these documents, yes. Q. Have you ever seen the expert report done by Dr. Cook in this case? A. Yeah. I have seen it recently, yes. Q. It was after you were done drafting your initial and supplemental reports? Do you know? A. I believe so. Q. Okay. I'll note that Dr. Cook seems to have the exact same lists that you do. Did you provide these to him? A. We looked at the same data. I'm sorry. Q. Okay. I was going to say, did you	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	record. The time is 5:02. (Off the record.) VIDEOGRAPHER: We are now back on record, and the time is 5:10. BY MR. FROST: Q. All right, sir. If you look at page 21 of your report, do you see the sample with the date 8/22/1985? VIDEOGRAPHER: I'm sorry, Counsel. Can you put that notebook lid down? MR. FROST: Oh. VIDEOGRAPHER: Thanks. MS. O'DELL: 21. A. 21, and what was the line on the table? BY MR. FROST: Q. 8/22/1985. A. Yes. Q. I'll move this binder, so it's out of the way. And that relates to sample WMI 85-28 and WMI 85-30?

Page 242 1 Q. Do you know where Samples 85-28 and 85-30 2 were mined? 3 A. I'm looking at the document. 4 Q. Yes. If you look for the actual 5 document, if you turn to Tab 1 in the book you have 6 there. 7 A. I have Tab 1. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 1 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples scame from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNI 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we saw from the Tab 1 document that sapear in the chart, lack? I'm sorry. 10 Q. Okay. And those are the two samples we saw from the Tab 1 document that sapear in the chart, lack Prosory. 11 Say MR. FROST: 12 Q. Okay. And those are the two samples we saw from the Tab 1 document that sapear in the chart, lack Prosory. 18 A. Yes. 19 Q. Okay. Okay. Oy ou see here on here the WMI 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 15 Certification protocol on page 3. Yesh, I know. It's 16 Q. Okay. Oy on you see here on here the WMI 17 Certification protocol on page 3. Yesh, I know. It's 18 Short and I'm sorry. 19 Q. Okay. Oy on you see here on here the WMI 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 Certification protocol on page 3. Yesh, I know. It's 18 A. Yes. 19 Q. And that's the one we just saw that comes
2 were mined? 3 A. I'm looking at the document. 4 Q. Yes. If you look for the actual 5 document, if you turn to Tab 1 in the book you have 6 there. 7 A. I have Tab 1. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not – it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 M. S. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. PROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNI 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 14 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. OTDELL: I've got you. All right. 6 BY MR. PROST: 7 Q. And then looking down at 85-30, which is the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 2 right? 13 A. Yes. 14 G. Okay. You now can turn to Tab 3, which is is a document that starts MERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 A. Yes. 28 BY MR. PROST: 18 the 4/29/1986 sample. 5 A. Im sorry. Page 12? 6 Q. I'm sorry. Imeant page 12; I got it 5 sample listed, it's the 4/29/1986 sample. 5 A. I'm sorry. Page 12. 6 Q. I'm sorry. Imeant page 12; I got it 5 sample listed, it's the 4/29/1986 sample. 5 A. I'm sorry. Page 12. 6 Q. I'm sorry. Intent page 21. I got it 6 be wish extended. 9 A. Page 21. Okay. And I'm sorry. And what 9 was the line? 9 A. Page 21. Okay. And I'm sorry. And what 9 was the line? 9 A. I'm sorry. I and the scarct 10 Q. Okay. The social page. 11 A. Ves. 12 Q. Okay. And those are the two samples we 12 saw from the Tab 1 document that appear in the chart, 2 right? 13 A. Yes. 14 Q. Okay. Objou see in the middle of page were mined? 15 A. Correct. 16 Q. Okay. Objou see in
3 Q. On page 12, if you go down to the next 4 Q. Yes. If you look for the actual 5 document, if you turn to Tab 1 in the book you have 6 there. 7 A. I have Tab 1. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNI 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's wMI 85-28. It's on page 4 2. 5 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's wMI 85-28. It's on page 4 2. 6 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay, You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 A. Yes. 18 A. Page 21. Okay. And I'm sorry. And what 29 was the line? 20 Q. I's the next one down, 4/29/1986. 21 N. Page 21. Okay. And I'm sorry. And what 22 Q. That's Tab 4. 24 Q. And do you see in the middle of page 25 we're talking here, it's sample number WMI 85-53, WM 26 Q. Okay. And those are the ones that 29 theter talking about in the letter about the chrysotile 20 detection? 21 A. We can just check. No. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. No. It's the — I was just id
4 sample listed, it's the 4/29/1986 sample. 5 document, if you turn to Tab I in the book you have 6 there. 7 A. I have Tab I. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-30, which is 4 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that tappear in the chart, 1 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 backwards. 8 A. Page 21. Okay. And I'm sorry. And what was the line? 9 backwards. 8 A. Page 21. Okay. And I'm sorry. And what was the line? 9 La M. Page 21. I got it 9 backwards. 8 A. Page 21. Okay. And I'm sorry. And what was the line? 9 La M. Page 21. I got it 9 backwards. 8 A. Page 21. Okay. And I'm sorry. And what was the line? 9 La M. Page 21. I so it in sorry. 14 A. 429/1986. So J&J 182. So is that — 15 A. Tab 5. 16 Q. And do you see in the middle of page we're talking about in the letter about the chrysotile detection? 2 Q. Okay. Do you know where these samples 2 Q. Okay. Do you know where these samples 2 Q. Okay. Do you know where these samples 3 A. Where is that on the — 4 Q. Is's on the — 5 A. Chart? 6 Q. No. It's the - I was just identifying 7 for the rec
5 document, if you turn to Tab 1 in the book you have 6 there. 7 A. I have Tab 1. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: 1's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to to the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 backwards. 8 A. Page 21. Okay. And I'm sorry. And what 9 was the line? 10 Q. It's the next one down, 4/29/1986. 11 A. 42/9/1986. 11 A. 42/9/1986. 12 Q. That's Tab 4. 13 A. Tab 4. 14 Q. And do you see in the middle of page 15 we're talking here, it's sample number WMI 85-53, WM 16 85-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 19 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 22 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 26 Q. No. It's the next one down, 4/29/1986. 21 A. Yes. 22 Q. Okay. Do you know that. 23 A. Where is that on the — 4 Q. If's on the — 5 A. Chart? 9 Q. If you turn t
6 there. 7 A. I have Tab 1. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if' you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: Tre got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 backwards. A. Page 21. Okay. And I'm sorry. And what we was the line? A. Page 21. Okay. And I'm sorry. And what and was the line? A. A 29/1986. So J&J 182. So is that — 12 Q. I's the next one down, 4/29/1986. 13 A. Tab 4. A. Tab 4. Q. And do you see in the middle of page 14 Q. Okay. And those are the ones that 19 they're talking here, it's sample number WMI 85-53, WM 16 85-55 and WMI 85-57? Page 24 A. Yes. 20 Q. Okay. And those are the word the sample will be the chart, Jack? I'm sorry. 21 A. Yes. 22 Q. Okay. Do you know where these samples we 10 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the — 4 Q. I's on the — 5 A. Chart? 6 Q. No. It's the — I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. I's you turn to the third page — MS. SCOTT: 8890. 18 A. Yes. 19 Q. Yea
7 backwards. 8 Q. All right. Great. 9 A. All right. Let me just read. Yes. As 10 is common, there's not it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. 27 Q. And those are the two samples are you on in the chart, Jack? I'm sorry. 28 MR. FROST: It's WMI 85-28. It's on page 29 Q. Okay. And those are the two samples we saw from the Tab I document that sappear in the chart, Jack? I'm sorry. 3 MR. FROST: It's wMI 85-28. It's on page 4 2. MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we saw from the Tab I document that tappear in the chart, Jack? I'm sorry. 11 Say was the line? 12 Q. It's the next one down, 4/29/1986. 12 Q. It's the next one down, 4/29/1986. 14 A. 4/29/1986. So J&J &J &S. So is that 12 Q. That's Tab 4. 14 Q. And do you see in the middle of page 16 88-555 and WMI 85-53, WMI 85-53, WMI 85-55 and WMI 85-55 and WMI 85-55 and WMI 85-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that the page in the chart Jack? I'm sorry. 21 A. Yes. 22 Q. Okay. And those are the two samples we saw from the Tab I document that starts IMERYS 013723. If you turn to 15 the third page of it. The very bottom of the product 18 A. Tab 5. 19 A. Yes. 19 Q. I's the next one down, 4/29/1986. 20 Q. That's Tab 4. 21 Q. Okay. And those are the two samples we saw from the Tab I document that starts IMERYS 013723. If you turn to 15 the third page of it. The very bottom of the product 19 Cokay. And those are the
8
9 A. All right. Let me just read. Yes. As 10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If' you turn to 16 the third page of it. The very bottom of the product 16 MS. Yes. 9 Was the line? 10 Q. It's the ext one down, 4/29/1986. 11 A. 4/29/1986. So J&J 182. So is that 12 Q. That's Tab 4. 12 Q. That's Tab 4. 13 A. Tab 4. 14 Q. And do you see in the middle of page 15 We're talking here, it's sample number WMI 85-53, WM 18 85-58 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 Q. Okay. And those are the two samples we 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-70
10 is common, there's not — it doesn't say the exact 11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 10 the third page of it. The very bottom of the product 10 the third page of it. The very bottom of the product 11 A. 4/29/1986. So J&J 182. So is that — 12 Q. That's Tab 4. 13 A. Tab 4. 14 Q. And do you see in the middle of page we're talking here, it's sample number WMI 85-53, WM 15 sand that. 16 BY MR. FROST: 19 A. Yes. 20 Okay. And those are the ones that the chrysotile detection? 21 A. Yes. 22 Q. Okay. And those where these samples we will alk the chrysotile detection? 23 Were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the — 4 Q. It's on the — 5 A. Chart? 6 Q. No. It's the next one down, 4/29/1986. 16 A. Tab 4. 17 A. Tab 4. 18 We're talking here, it's sample number wMI 85-53, wM 16 sectors and will sept a detection? 18 Q. Okay. And those are the ones that the they's and work and th
11 location. 12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: Tve got you. All right. 6 BY MR. FROST: I's word is the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 1 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 11 A. 4/29/1986. So J&J 182. So is that 12 Q. That's Tab 4. 13 A. Tab 4. 14 Q. And do you see in the middle of page we're talking here, it's sample number WMI 85-53, WM 16 88-55 and WMI 85-57? 17 A. Yes. 20 Qokay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 24. 2 d. We're inliking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 24. 2 d. We can just check. No. 2 D. Turn to Tab 5, sir. And that's the Page 24. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 A. Yes. 12 Q. Ye
12 Q. Would it surprise you to learn that these 13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 15 war talking here, it's sample number WMI 85-53, WM 16 S-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile detection? 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 26 detection? 27 A. Yes. 28 We can just check. No. 29 Q. It's on the
13 samples came from a mine in San Andreas, California? 14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: Tve got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that appear in the chart, 12 right? 13 A. Tab 4. 14 Q. And do you see in the middle of page we're talking here, it's sample number WMI 85-53, WM 16 85-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 26 the third page. 3 A. Where is that on the 4 Q. It's on the 4 Q. If you turn to the third page 9 Q. If you turn to the third page 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product 17 A. Yes. 18 Q. Okay. Do you see in the middle of page 18 we're talking about in the letter about the chrysotile 19 A. Yes. 10 Q. Okay. Do you see in the middle of page 10
14 MS. SCOTT: Objection. 15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And do you see in the middle of page 15 we're talking here, it's sample number WMI 85-53, WM 16 85-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's theI was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to to the third page of it. The very bottom of the product 14 Q. Okay. Do you see here on here the WMI 15 88-53 is identified as the grade TC-700? 16 A. Yes.
15 A. I did not know that. 16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 18 stamped JNJ 65646. 18 d. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 15 we're talking here, it's sample number WMI 85-53, WM MI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples we 11 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to to the third page of it. The very bottom of the product
16 BY MR. FROST: 17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 16 85-55 and WMI 85-57? 17 A. Yes. 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples we will as were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the1 was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 15 85-53 is identified as the grade TC-700? 16 the third page of it. The very bottom of the product
17 Q. Turn to Tab 2. It's a document Bates 18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the ones that 11 determined? 24 A. Yes. 25 Q. Okay. Do you know where these samples 26 were mined? 27 A. Yes. 28 Q. Okay. Do you know where these samples 29 were mined? 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's theI was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 the third page of it. The very bottom of the product
18 stamped JNJ 65646. 19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 18 Q. Okay. And those are the ones that 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples 3 were mined? 4 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 is a document that starts IMERYS 013723. If you turn to 16 A. Yes.
19 A. I'm sorry. Tab 2? 20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: Tve got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 19 they're talking about in the letter about the chrysotile 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 2 the third page. 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
20 Q. Yeah. Turn to the second page. 21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab I document that appear in the chart, 12 right? 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 20 detection? 21 A. Yes. 22 Q. Okay. Do you know where these samples were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to 4 Q. It's on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 15 85-53 is identified as the grade TC-700? 16 the third page of it. The very bottom of the product
21 A. Okay. The second page. 22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 21 A. Yes. 22 Q. Okay. Do you know where these samples were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 26 A. Where is that on the 27 Q. It's on the 28 A. Chart? 4 Q. No. It's the I was just identifying 29 Yeah, 8890. 21 BY MR. FROST: 29 Q. Yeah, 8890. 21 BY MR. FROST: 21 Q. Yeah, 8890. 22 Q. Okay. Do you see here on here the WMI 23 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the 26 A. Where is that on the 27 Q. It's on the 28 Q. It's on the 8 A. Chart? 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to to 16 the third page of it. The very bottom of the product 16 A. Yes.
22 Q. Okay. And if you look at sample WMI 23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product Page 243 A. We can just check. No. 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 245 A. Where is that on the 26 Q. No. It's on the 27 Q. No. It's theI was just identifying 28 A. Tab 5, yes. 39 Q. If you turn to the third page 39 Q. If you turn to the third page 39 Q. If you turn to the third page 30 A. Yes. 30 A. Yes. 40 Q. It's on the 41 Q. It's on the 42 Q. It's on the 43 Q. It's on the 44 Q. It's on the 45 Q. No. It's theI was just identifying 46 To the record the document. It's Tab 5 of the binder. 40 A. Tab 5, yes. 41 Q. Yeah, 8890. 41 BY MR. FROST: 41 BY MR. FROST: 42 Q. Yeah, 8890. 43 A. Yes. 44 Q. Okay. You now can turn to Tab 3, which 45 A. Yes. 46 Q. Okay. Do you see here on here the WMI 47 A. We can just check. No. 48 A. We can just check. No. 49 A. We can just check. No. 40 A. We can just check. No. 40 A. We can just check. No. 41 document with Bates number JNJ 578888. You can turn to Tab 5, sir. And that's the
23 85-28, it notes that it's grade TC-700. Do you see 24 that? 25 A. 85-28. Oh, okay. Yes. Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 2 were mined? 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 24 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. We can just check. No. 26 Q. Turn to Tab 5, sir. And that's the Page 24: A. Were instance. Page 24: A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product Page 243 A. We can just check. No. 25 Q. Turn to Tab 5, sir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 2 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product Page 243 1 document with Bates number JNJ 578888. You can turn to Tab 5, wir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to Tab 5, wir. And that's the Page 243 1 document with Bates number JNJ 578888. You can turn to Tab 7, wire is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 A. Yes.
Page 243 1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 1 document with Bates number JNJ 578888. You can turn to 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 the third page of it. The very bottom of the product 16 A. Yes.
1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 the third page of it. The very bottom of the product 16 A. Yes.
1 MS. O'DELL: What sample are you on in 2 the chart, Jack? I'm sorry. 3 MR. FROST: It's WMI 85-28. It's on page 4 2. 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 1 document with Bates number JNJ 578888. You can turn to 2 the third page. 3 A. Where is that on the 4 Q. It's on the 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 the third page of it. The very bottom of the product 16 A. Yes.
the chart, Jack? I'm sorry. MR. FROST: It's WMI 85-28. It's on page MR. FROST: It's WMI 85-28. It's on page MS. O'DELL: I've got you. All right. MS. Chart? MS. Tab 5, yes. MS. SCOTT: 8890. MS. SC
MR. FROST: It's WMI 85-28. It's on page 4
4 Q. It's on the 5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. It's on the 15 A. Chart? 16 Q. No. It's the I was just identifying 17 for the record the document. It's Tab 5 of the binder. 18 A. Tab 5, yes. 19 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 A. Yes.
5 MS. O'DELL: I've got you. All right. 6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 9 Q. If you turn to the third page 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 5 A. Chart? 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 A. Yes.
6 BY MR. FROST: 7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 6 Q. No. It's the I was just identifying 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 16 A. Yes.
7 Q. And then looking down at 85-30, which is 8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 7 for the record the document. It's Tab 5 of the binder. 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 85-53 is identified as the grade TC-700? 16 A. Yes.
8 the second sample, that is also grade TC-700, correct? 9 A. Correct. 9 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 8 A. Tab 5, yes. 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
9 Q. If you turn to the third page 10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 9 Q. If you turn to the third page 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
10 Q. Okay. And those are the two samples we 11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 10 MS. SCOTT: 8890. 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
11 saw from the Tab 1 document that appear in the chart, 12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 11 BY MR. FROST: 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
12 right? 13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 12 Q. Yeah, 8890. 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
13 A. Yes. 14 Q. Okay. You now can turn to Tab 3, which 15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 13 A. Yes. 14 Q. Okay. Do you see here on here the WMI 15 85-53 is identified as the grade TC-700? 16 A. Yes.
Q. Okay. You now can turn to Tab 3, which is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it. The very bottom of the product is a document that starts IMERYS 013723. If you turn to the third page of it.
15 is a document that starts IMERYS 013723. If you turn to 16 the third page of it. The very bottom of the product 15 85-53 is identified as the grade TC-700? 16 A. Yes.
16 the third page of it. The very bottom of the product 16 A. Yes.
18 tiny. I apologize. Do you see where it says, "San 18 from the San Andreas, California, mine, correct?
19 Andreas, California, Red Hill Grade," and then it has 19 A. Okay. Yes.
20 "TC-700, light" and "dark"? 20 If you look down at WMI 85-56 and 85-57,
21 A. Yes. 21 which are the other two samples, do you see that one is
22 Q. Okay. This clearly indicates that these 22 grade 76 and the other is also grade TC-700?
23 two samples did not come from one of the Vermont mines 23 A. Yes.
24 or the Italian or the Chinese mines, correct? 24 Q. Okay. So for the TC-700, we know that's
25 MS. SCOTT: Object to the form. 25 San Andreas. If you turn back to Tab

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	Page 246		Page 248
1	MS. O'DELL: Object to the form.	1	A. No, not specifically.
2	BY MR. FROST:	2	Q. Okay. If you turn to Tab 7, that's the
3	Q. Turn back to Tab 3.	3	document, it's identified as JNJMX68_2659.
4	MS. O'DELL: Is that a question?	4	A. JNJMX68_2659. Okay. Where is it in
5	MR. FROST: Sure.	5	the
6	BY MR. FROST:	6	Q. If you look at the third paragraph.
7	Q. Do you agree with me that we know from	7	A. Okay.
8	looking at the document before that the TC-700 is	8	Q. So it's the third and the fifth
9	identified as San Andreas, California?	9	paragraph.
10	MS. O'DELL: Object to the form.	10	A. "The samples represented both the
11	A. I don't remember.	11	industrial materials produced at the Gassetts and West
12	BY MR. FROST:		Windsor."
13	Q. We're going to turn back there. It's Tab	13	Q. Okay. If you look down at the fifth
14	3, please, in the binder. It's the last page of that	14	paragraph, it says, "In one instance, asbestos was
15	document.	15	identified, this being associated with sample D-GI
16	A. Right. Oh, okay. Yeah.	16	produced at the Gassetts Mill."
17	Q. And do you also see the grade 76?	17	A. Okay.
18	A. 76 is listed there as well.	18	Q. And do you agree with me that the
19	Q. Okay.	19	Gassetts Mill and industrial talc are different than the
20	A. Okay. Yes.	20	cosmetic talcum powder used in Johnson & Johnson Baby
21	Q. So the samples in this, from this testing		Powder or Johnson's Baby Powder and Shower to Shower
22	also did not come from any of the mines utilized by		products?
23	Johnson & Johnson for talcum powder, correct?	23	A. The geology is related.
24	MS. O'DELL: Object to the form.	24	Q. Okay. But specifically the this is
25	A. Okay. As far as yeah.		not talcum powder that ever made it into a bottle of
	A. Okay. As lai as yeali.		not taleam powder that ever made it into a bottle of
	2 21		D 240
	Page 247		Page 249
1	BY MR. FROST:	1	Page 249 Johnson's Baby Powder or Shower to Shower; is that
1 2	_		<u> </u>
	BY MR. FROST:		Johnson's Baby Powder or Shower to Shower; is that
2	BY MR. FROST: Q. Turn to page 19 of your report.	2	Johnson's Baby Powder or Shower to Shower; is that correct?
2 3	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report?	3	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection.
2 3 4	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the	3 4	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct.
2 3 4 5	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample.	2 3 4 5	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST:
2 3 4 5 6	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay.	2 3 4 5 6	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report.
2 3 4 5 6 7	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the	2 3 4 5 6 7	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15?
2 3 4 5 6 7 8	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I	2 3 4 5 6 7 8	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep.
2 3 4 5 6 7 8	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document.	2 3 4 5 6 7 8	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay.
2 3 4 5 6 7 8 9	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the	2 3 4 5 6 7 8 9	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971.
2 3 4 5 6 7 8 9 10 11	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the	2 3 4 5 6 7 8 9 10	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of
2 3 4 5 6 7 8 9 10 11 12 13	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material	2 3 4 5 6 7 8 9 10 11 12	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc.
2 3 4 5 6 7 8 9 10 11 12 13	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray	2 3 4 5 6 7 8 9 10 11 12 13	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box.	2 3 4 5 6 7 8 9 10 11 12 13 14	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample
2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately to an order of magnitude) of .006 percent."	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks. A. It says, "only minor amounts (below
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately to an order of magnitude) of .006 percent." Q. And do you know where this sample was mined?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks. A. It says, "only minor amounts (below 1 percent) of tremolite and actinolite were detected." BY MR. FROST:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. FROST: Q. Turn to page 19 of your report. A. Page 19 of the report? Q. Yes. The very bottom, the 10/10/1974 sample. A. Okay. Q. And if you look at Tab 7, that's the corresponding document. I'm sorry. Tab 6. I apologize. Tab 6 is the corresponding document. A. J&J-74. Okay. Q. Do you see here where it states that the sample that came back, the fibrous asbestiform material is D-GI? It's in the semi-highlighted section, the gray box. A. "Only one sample was found to contain fibrous asbestiform material." Q. And that's D-GI? A. D okay. If you say all right. Okay. "7/15 to 7/29. Chrysotile fibers were found to be present at an estimated level (good at approximately to an order of magnitude) of .006 percent." Q. And do you know where this sample was mined?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Johnson's Baby Powder or Shower to Shower; is that correct? MS. SCOTT: Objection. A. Presumably, that is correct. BY MR. FROST: Q. Turn to page 15 of your report. A. Page 15? Q. Yep. A. Of the report? Okay. Q. It's the sample 7/7/1971. A. 7/7/1971, J&J-15, Colorado School of Mines, the Vermont talc. Q. And if you turn to Tab 8. This is the corresponding document related to processed talc sample 344-L? MS. O'DELL: I'm sorry, Jack. Did you say Tab 8? MR. FROST: Tab 8 of the binder, yes. It's JNJAZ55_6089. MS. O'DELL: Great. Thanks. A. It says, "only minor amounts (below 1 percent) of tremolite and actinolite were detected." BY MR. FROST:

Page 252 Page 250 A. Yeah. It says, "Following are results of 1 1 permissible, but, again, you know, it also indicates 2 the x-ray analyses on the 344-L Vermont talc product and 2 that they're sloppy with their materials and they --3 the six monthly Vermont talc product samples." Yes. Q. I'll stop you here. Without speculating, MS. O'DELL: Jack, are you going to you can't tell me that the talc in 344-L contained 5 mark -- I think what made it to the chart was asbestos, correct? 6 J&J-15. MS. SCOTT: Object to the form. 7 MR. FROST: I didn't have a copy with the A. I would say that based on these 8 J&J-15 sticker on it. It's the same document. documents, that, objectively, the analysis might be 9 though. This is just from our production. suspect or based on what I saw previously. 10 MS. O'DELL: I see. Do you mind giving BY MR. FROST: 11 me just a minute to pull that up --11 Yeah. But you can't tell me one way or 12 MR. FROST: Sure. 12 the other based on this, considering it's a retraction? 13 13 Well, it was measured once. We don't MS. O'DELL: -- so we can correlate it? 14 It will take me two seconds. 14 know -- they didn't -- I don't see any data that backs 15 Thanks very much. 15 up --16 BY MR. FROST: 16 Well, there's no data in this report. Q. 17 Q. If you turn, sir, to page -- or, sorry, 17 It says, I saw where evidently 18 to Tab Number 9. Well, before I get there, this report contamination. "Evidently" is a word up to 19 was done by the Colorado School of Mines, correct? interpretation. Prove it. I don't see, you know, 20 essentially, some sort of chemical analysis or whatever A. Colorado School of Mines Research 21 Institute it what it says, yes. that would prove the exact same thing. 22 22 Are you aware that the Colorado School of Q. So with the guy who did the testing 23 Mines issued a subsequent report regarding these 23 saying my testing is wrong, you're still comfortable in 24 samples? 24 saying 100 percent that there was asbestos in that 25 I don't know. I believe I've seen other 25 talcum powder sample? Page 251 Page 253 1 things from the Colorado School of Mines. MS. SCOTT: Objection. 1 2 Okay. If you turn to Tab 9. It's a Well, I would say it's probable --A. document identified as JNJAZ55_3828. BY MR. FROST: Q And what's that based on? Do you see it where it says -- it's Point 5 Α -- or possible. Q. 6 Number 1. "In the report of July 7, 1971." Do you Q. What's your basis? agree with me that's the report you just looked at in A. The first finding. 8 Tab 8? Q. And the fact that it was negated and 9 A. Okay. specifically retracted by the person who does the 10 Continues down, it says, "Subsequent testing has absolutely no sway in your mind as to 11 x-ray work on the six monthly product samples and the whether or not? You're just now basing your opinion on 12 344-L product sample shows no definite indications of speculation? 13 13 asbestos-type minerals within our limits of MS. SCOTT: Objection. 14 detectability. The trace amounts I saw were evidently BY MR. FROST: 15 contamination from the standard asbestos samples." Did 15 Q. Don't you think the guy who did the test 16 I read that correctly? is in a better position than you are today, 40, 50 years 17 later, to say what was in that particular sample that he You read it correctly. But it's also, in 18 my mind, it's unclear, you know -- you know, again, 18 tested? 19 19 like, there's no detail as far as, like, the methods and MS. O'DELL: Objection. 20 such. So if they're doing this as powders and then 20 A. I've stated my opinion. 21 they're reanalyzing, so they're repacking the powder at 21 BY MR. FROST: 22 a sample volume can be several cubic centimeters. So Okay. Interesting one. Let's turn to 22 O 1972. It's page 16. 23 it's not necessarily surprising that we would have a 23

24

25

25 get a negative result. And their interpretation is

24 positive result and then, if you repack it, you might

There's many from '72 here. Which one?

It's the very -- it's 8/3/1972.

	Mark Kreke	- 1	
	Page 254		Page 256
1	A. "8/3/1972, J&J-28, NYU, Shower to Shower	1	J J J
2	5 percent chrysotile."	2	
3	Q. Turn to Tab 8. I'm sorry. Tab 10.	3	getting Dr. Lewin okay. D. You said D-1?
4	A. Tab 10.	4	MS. O'DELL: Is it DX?
5	Q. Do you agree this is a corresponding	5	MR. FROST: I have it as D. It's
6	document to that entry?	6	possible it's DX.
7	A. J&J-28. Yes.	7	A. So let's see what the date is. We have a
8	Q. Okay. Real quick, before I get there,	8	date. We're looking for January 7th, '76. January 7th,
9	turning back to Tab 9, you were never provided with this	9	'76. I think there's only I have one. I have only
10	, 8	10	****
11	MS. SCOTT: Objection.		BY MR. FROST:
12	A. Tab 9. I think I was.	12	Q. Sir, we're trying to pull up the
13			documents, but this relates and I'll get back but
14	Q. And then why didn't you consider this	14	this relates to your testing of 8/3/72 by Dr. Lewin.
15	8,	15	The Shower to Shower sample 84, you note on the 8/3/72.
16	MS. SCOTT: Objection.	16	If you look back at Tab 10, that's the corresponding
17	A. I potentially missed it in the	17	document for that. It's on the one, two, three, four,
- 1	compilation.	18	five, sixth page.
19	BY MR. FROST:	19	MS. SCOTT: Is subsection B on the
20	Q. And you also didn't include it under	20	tabulation of Dr. Lewin's original findings
	materials considered?	21	smudged?
22	A. I missed it.	22	MR. FROST: Yeah, it's smudged, too.
23	Q. Okay. So back to Tab 10. So we agree	23	MS. SCOTT: Okay.
- 1	this is the source of the entry on page 16 of your	24	MR. FROST: Yeah. Mine looks the same.
25	report, correct? The Shower to Shower sample 84.	25	MS. SCOTT: Got it. And that's the
		1	
	Page 255		Page 257
1	Page 255 A. Yeah. J&J-28?	1	Page 257 original?
1 2	_	1 2	_
	A. Yeah. J&J-28?		original?
2	A. Yeah. J&J-28? Q. Yes.	2	original? MR. FROST: Yes. My understanding is that's the original.
3 4	A. Yeah. J&J-28?Q. Yes.A. Yes.	2 3	original? MR. FROST: Yes. My understanding is that's the original.
3 4	A. Yeah. J&J-28?Q. Yes.A. Yes.Q. Okay. And this was testing that was done	2 3 4 5	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST:
2 3 4 5	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin?	2 3 4 5	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about
2 3 4 5 6	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested	2 3 4 5 6	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10?
2 3 4 5 6 7	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested	2 3 4 5 6	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10.
2 3 4 5 6 7 8 9	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at	2 3 4 5 6 7 8	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five.
2 3 4 5 6 7 8 9 10	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's	2 3 4 5 6 7 8	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84?
2 3 4 5 6 7 8 9 10	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down.	2 3 4 5 6 7 8 9	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84? A. Product 84? Yes.
2 3 4 5 6 7 8 9 10 11 12	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down. A. It is one, two, three, four. And I'm	2 3 4 5 6 7 8 9 10	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down. A. It is one, two, three, four. And I'm sorry. This is	2 3 4 5 6 7 8 9 10 11 12 13	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84? A. Product 84? Yes. Q. And if you follow across, there's A. 5 percent chrysotile.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down. A. It is one, two, three, four. And I'm sorry. This is Q. Yes. That's the chart.	2 3 4 5 6 7 8 9 10 11 12 13	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84? A. Product 84? Yes. Q. And if you follow across, there's A. 5 percent chrysotile. Q 5 percent chrysotile. Okay. So if
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down. A. It is one, two, three, four. And I'm sorry. This is Q. Yes. That's the chart. A. Where? I don't see a number on this.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84? A. Product 84? Yes. Q. And if you follow across, there's A. 5 percent chrysotile. Q 5 percent chrysotile. Okay. So if you turn to the document at Tab 11.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yeah. J&J-28? Q. Yes. A. Yes. Q. Okay. And this was testing that was done by Dr. Lewin? A. Yes. Q. Are you aware that Dr. Lewin retested this sample and was unable to replicate his results? A. No. Q. Okay. Turn to Tab 11. If you look at page 4, it's the testing of Number 29. I think it's four three down. A. It is one, two, three, four. And I'm sorry. This is Q. Yes. That's the chart. A. Where? I don't see a number on this. Q. Yeah. It appears to have gotten cut off,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	original? MR. FROST: Yes. My understanding is that's the original. BY MR. FROST: Q. Okay. So you see we're talking about Sample 84 on Tab 10? A. Right. So I'm at Tab 10. Tab 10. Q. One, two, three, four it's the fifth page. A. One, two, three, four, five. Q. Do you see a Product 84? A. Product 84? Yes. Q. And if you follow across, there's A. 5 percent chrysotile. Q 5 percent chrysotile. Okay. So if you turn to the document at Tab 11. MS. O'DELL: I'm not able to find that
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Page 258 Page 260 1 Okay. One, two, three, four. 1 Powder, 3 percent chrysotile. 2 Do you see here under Sample 84 with the 2 You're looking at page 4 of 7? Q. 3 retest that there's a no detect and there's no finding 3 4 of 7. A. 4 of chrysotile? O. Samples 183 and 184? 5 MS. SCOTT: Objection. 5 Yes. A. A. In the -- oh, there's a question mark for 6 6 O. If you look back at Tab 11. If you look chrysotile, right? at Samples 133 and 134 here. Again, on the retest, this BY MR. FROST: time there's no question mark. It says nondetect for 9 chrysotile, tremolite. Do you agree? Q. Yeah. It certainly doesn't find that there's chrysotile in the retest, correct? 10 133 and 134, ND. Yes, ND is listed. 10 11 MS. SCOTT: Objection. 11 Q. And if you look back at your chart on A. It doesn't say "no detect," also. 12 12 16 -- strike that. 13 So, again, looking at this, you can't 13 BY MR. FROST: 14 Q. Again, without speculating, can you tell tell me whether or not there's actually asbestos that 15 me whether or not that that means there's chrysotile in made it into the sample that's listed as 9/26/72 in your that product? chart, correct, without speculating? 17 A. No. But it means there's some question. 17 A. Correct. It was detected once in a 18 Yeah, I don't know why they would use question marks. 18 sample, and it was not detected again in what is 19 If it was no detect, I would expect it to be an ND. supposedly the same sample. So I'm unclear. Is it the 20 Q. But, again, you can't tell me one way or exact -- is it the same exact sample or same lot? the other without speculating that there's chrysotile in 21 Q. It's the same sample, sir. It was 21 that product, correct? retesting of the same sample. 22 23 23 MS. O'DELL: Object to the form. Resting. 24 A. So with all these, you know, re-analyses, 24 MS. O'DELL: Object to the form. 25 you know, essentially, one aspect of variability is that Is the exact --A. Page 259 Page 261 1 perhaps the samples were either ground more or not MS. O'DELL: Excuse me. Object to the 1 2 ² prepared, you know, in the same way. form. ³ BY MR. FROST: ³ BY MR. FROST: Q. Let's stop you here. You're speculating Q. You can read the document yourself, sir. 5 about all of this, correct? Based on these documents, All right. So I think we've gone 6 can you tell me one way or the other that there was any 6 through, like, six of these, correct? And we've come up 7 problems with the retest or that they've actually found with six of them either are samples that have absolutely 8 chrysotile in any of these samples? I don't want you to nothing to do with Johnson's Baby Powder or Shower to 9 speculate. 9 Shower or any other cosmetic talcum problem. Do you 10 MS. SCOTT: Object to the form. agree? Talcum powder product. 11 The -- this has a question mark listed 11 MS. O'DELL: Objection. 12 for chrysotile. 12 BY MR. FROST: 13 BY MR. FROST: 13 Q. Do you agree? And based on that, you can't tell me one 14 A. We've gone through six examples as ¹⁵ way or the other whether there was chrysotile in the 15 you've -- yeah. 16 final sample that was tested, according to this 16 Q. And others we've come up with, we 17 basically determined without speculating you can't say document, correct? 18 A. Correct. According to that document. one way or the other that there is asbestos in that 19 Q. Okay. Go to your chart. Still on page product that made it onto the market, correct? 20 20 16. I believe. It's 9/26/72. MS. SCOTT: Object to the form. 21 9/26/72. 21 Based on those documents, yes. A. A. If you turn to Tab 12. Do you agree that 22 22 BY MR. FROST: 23 that's the corresponding document, J&J-31? 23 Q. So I think it would take us days to go 24 A. JNJ-31. I believe so, yes. Johnson's through all of these, but can you definitively sit here

25 Baby Powder, 2 percent chrysotile; Johnson's Baby

now and tell me that every single hit or every single

Page 262 Page 264 1 they provided to you? 1 reference you have on this list showing asbestos and MS. SCOTT: Objection. 2 talcum powder is actually talcum powder that was, one, 3 either use or ended up in an bottle of Johnson's Baby A. No. But I -- well, I remember there's a 4 Powder or Shower to Shower or other talcum powder 4 deposition by Blount who indicated, I think, on page 10 5 products or, two, that you can say without speculating that work from 1991 was Johnson & Johnson talcum powder, 6 contains asbestos? 6 if I remember correctly. I've seen that somewhere. BY MR. FROST: MS. O'DELL: Objection. 8 To the best of my knowledge, I stand by Q. Okay. So Blount, Longo. And, again, 9 Blount was provided to you by plaintiffs' counsel, 9 the report. correct? 10 BY MR. FROST: 11 Q. But sitting here today, you can't tell me 11 A. Yes. 12 12 one way or the other that absolutely every -- well, we Q. Now, you've done no additional testing know not every single entry is correct? 13 yourself of talcum powder? I think you said that MS. O'DELL: Objection. 14 14 before. 15 15 Yeah. So there -- there are some Correct. Yeah. That was not requested 16 misidentifications or later corrections, later 16 of me. 17 And have you done any testing or cusing 17 corrections that I was unaware of, but it's also of the testing done by Dr. Longo? 18 concerning that you can -- it's not exactly -- you know, 18 MS. SCOTT: Objection. Asked and 19 so what is a sample? It's not exactly clear if the 19 20 sample is like a kilogram sample, so you could have 20 answered. No. I was not asked to retest on any of 21 portions in that sample that have asbestos that you 21 22 cannot detect, and then you can have regions of the 22 his samples or anything like that. BY MR. FROST: sample that have a lot. So that, that's my opinion. Q. So what you're telling me is you can't 24 Q. So you're merely relying on the results 25 actually speculate as to any of the testing results in of his testing for purposes of your opinions here, Page 263 Page 265 1 here because of the various sample sizes retesting, and 1 correct? 2 again, not everything we found is a retest, right? Some A. Yes. 3 aren't even products of cosmetic talc, correct? You have no opinions about his sample MS. O'DELL: Object to the form. 4 preparation, his underlying testing methods, anything of 5 MS. SCOTT: Objection. 5 that nature? A. I don't remember. A. I'm fine with what he's done. BY MR. FROST: 7 Okay. But you're not rendering any O. 8 Q. You don't remember that we found talcum opinions that it's correct or incorrect or the powder that came from a mine in San Andreas, California? 9 methodology about it? You're not going to sit here 10 A. I'm sorry. Yeah, that's correct. today and walk me through the methodology that Longo 11 Okay. So it's not just retesting that used to give me opinions that that's the proper way or 12 came back. I've also identified some product that has not the proper way? 13 nothing to do with cosmetic talcum powder, correct? MS. SCOTT: Objection. 14 MS. SCOTT: Objection. I think what he did was fine for the 15 A. Correct. purpose of the report. 16 BY MR. FROST: 16 BY MR. FROST: 17 17 Q. Okay. Now, you also reference in your Q. You have no problems with any of the 18 report Dr. Longo's reports; is that correct? 18 methodology he employed in his testing? 19 19 A. Yes. MS. O'DELL: Objection. Asked and And I take it you were provided those 20 20 21 reports by plaintiffs' counsel? 21 No. I'm fine with what he's done in the A. 22 A. Yes. 22 report. 23 Did you ever ask plaintiffs' counsel if 23 BY MR. FROST: 24 anybody else has done testing of Johnson & Johnson 24 This is despite the fact that you've done

25 talcum powder other than Dr. Longo and the records that

25 nothing to verify the results of his report?

Page 268 Page 266 1 MS. SCOTT: Objection. 1 found asbestos in every sample he tested? 2 You know, I looked at a lot of TEM data. 2 I would not be comfortable saying that. 3 I don't know. ³ You know, just looking at the quality of the data, 4 electron diffraction is, requires a certain level of Q. Okay. A. 5 skill, and he produced several, you know, really good I know he found asbestos in many samples. 6 nets, so he was obviously able to get good orientations Okay. Turning to -- where I did put your Q. ⁷ of crystals. So, you know, he didn't have anything that report? 8 was extremely off axis or anything like that. So at THE WITNESS: Can we take a little break? ⁹ that level, I mean, I am fine with his data. 9 MR. FROST: Sure. 10 10 BY MR. FROST: VIDEOGRAPHER: We're now going off 11 You didn't go through and actually run 11 record. The time is 5:47. 12 12 any calculations to determine whether or not his (A recess was taken from 5:47 to 6:00.) 13 VIDEOGRAPHER: We are back on record, and 13 accessees were correct or whether or not any of his underlying calculations or determinations are correct? 14 the time is 6:00. 15 MS. SCOTT: Objection. Asked and 15 BY MR. FROST: 16 16 Q. We're going to change gears a little bit answered. 17 and talk about fibrous talc. Of course, I'm not finding A. I did not index things, but the 18 diffraction patterns looked suitable and consistent as it. That's all right. It doesn't matter. 19 to the EDS, suitable and consistent with the materials So, in general, you're relying on the 20 that he identified. 20 IARC statement from 2012, correct, that fibrous talc is 21 BY MR. FROST: 21 carcinogenic? 22 22 I'm just trying to find it. Q. And is suitable and consistent the 23 scientific requirement for testing? 23 BY MR. FROST: MS. SCOTT: Objection. Q. If you find it, tell me the page. Okay. 25 25 Page 23 is where it starts. A. So with TEM work, essentially, one should Page 267 Page 269 1 have an image, an EDS pattern and a diffraction pattern. A. Twenty-three. ² So I find what he has done is in agreement with what I In general, I think a couple different Q. ³ places in your report, you note that, according to IARC, 3 would do and what others have done. 4 BY MR. FROST: 4 it's actually -- I see it on page 3. Yeah, that rely on Q. This is despite the fact that you didn't 5 IARC 2012 to state that fibrous talc can be a human 6 do any retesting of the work calculations. You didn't 6 carcinogen? ⁷ do any cusing of it. You're just taking it a face value I'm sorry. You said page 3? A. 8 based on your review? Q. Yes. 9 9 MS. SCOTT: Objection. Page 3. 10 A. I was not tasked with retesting samples. 10 MS. SCOTT: I'll just object. 11 "Talc can occur in a fibrous habit"? 11 BY MR. FROST: A. 12 12 Q. You agree with me that there are samples Q. Yep. 13 where Dr. Longo detected no asbestos, correct? "These fibers can be inhaled into the 14 A. I'm not sure. There may have been some, lower lungs based on their length and diameter, but I don't remember the exact details. producing effects linked to significant health risks in 16 16 humans. IARC 2012." Q. So you're relying on Dr. Longo's report 17 and testing as a basis for your opinions here, but you 17 BY MR. FROST: 18 can't even tell me whether or not what percentage or if Q. Okay. Would you agree with me that 19 he finds no asbestos in some of the bottles he tested? you're not an expert in reading the literature of what 20 MS. SCOTT: Objection. 20 causes cancer? There were, you know, hundreds and 21 MS. SCOTT: Objection. 22 hundreds of images diffraction patterns in EDS, so I 22 A. I am not an oncologist. I am not a 23 don't remember specifics. 23 medical expert. 24 BY MR. FROST: 24 BY MR. FROST: 25 25 So you can't tell me whether or not he Q. Do you agree with me that an IARC

Page 272 Page 270 1 monograph does not represent independent lab work but, 1 BY MR. FROST: 2 instead, it's a summary of work that's already been done 2 If you want me to explain it --3 I don't -- I don't remember. 3 by others? MS. SCOTT: Objection. And that, specifically, the theory is 5 that -- you know, the explanation is that if you look at A. And that's normal. There are many 6 monographs. I mean, we have, you know, the CRC 6 talc edge on, it can appear in a 2-D image as fibrous. chemistry book. Would you agree with that? 8 BY MR. FROST: MS. SCOTT: Objection. 9 Q. That's what I'm saying. A. Can I make a statement? 10 It is a cumulative document, as I BY MR. FROST: 11 understand it, based on peer-review literature, and it's 11 Q. Sure. 12 12 also an international document, so it's global A. So the miopyroboles are this mineral peer-review literature, as I understand it. group that actually were discovered in the ultramafic, 14 Q. Do you agree with me that if there are -these talc-rich zones in Vermont. So Dave Devlin, I 15 IARC does not draw conclusions on its own, so if there's worked with Thompson at Harvard, and basically, what 16 not peer-reviewed literature that says one way or the 16 they showed is that you can have these structural 17 other, IARC isn't going to jump out and say this is or intermediates where, essentially, you can have a region 18 this isn't, correct? IARC relies on the work of others of a crystal. 19 in order to reach its conclusions? 19 Q. Okay. I am going to stop you because we 20 MS. O'DELL: Object to form. are talking about something completely different. My 21 A. I think it's speculation because I'm not question was --22 an expert in health and medical things. 22 A. I was explaining how one might get 23 BY MR. FROST: 23 fibrous talc. Q. Okay. Are you aware whether or not there Q. No, no. I'm talking about -- that's why 25 are any peer-reviewed studies that actually link 25 I stopped you, because that's not what we're talking Page 271 Page 273 1 about. ¹ exposure to talc to ovarian cancer? 2 So do you agree that if you're looking at MS. SCOTT: Objection. 3 a plate of talc on edge, it can appear as a fiber in a 3 MS. O'DELL: Object to form. 4 2-D SEM or TEM image? And have you read any literature A. I'm sorry. Any studies or any about the problems with misidentifying talc? 5 information? 6 BY MR. FROST: MS. O'DELL: Objection. MS. SCOTT: Objection. 7 I said any peer-reviewed studies linking A. It can look -- so a fibrous -- a fiber exposure to talc to ovarian cancer. 9 A. I'm not a medical expert. can look like a two-dimensional plate or a 10 Again, can you tell me whether or not two-dimensional plate can look like a fiber. O. 11 IARC specifically links exposure to talc to ovarian 11 BY MR. FROST: 12 12 cancer? Q. So the problem is when you're looking --13 13 because, usually, a platy talc, you know, if it's MS. SCOTT: Objection. Asked and 14 answered. sitting oriented this way, you can see the large 15 platiness of it, but if it's oriented that you're MS. O'DELL: Objection. 16 looking at the flat plane, have you ever read anything I'm not a medical expert. A. 17 that talks about the fact that you can misidentify platy BY MR. FROST: 18 talc as fiber based on the orientation of the image? Have you ever done any work identifying 19 19 talc as either platy or fibrous? MS. SCOTT: Objection. 20 20 No. I have no peer-reviewed articles. A. I don't remember. Α. 21 21 MR. FROST: Can we get IARC 2010? I Are you aware if you ever heard of the Q. 22 forget what that was marked as. It's the big common misreporting of platy talc as fibrous? MS. SCOTT: Objection. 23 23 orange one, I believe. Yeah, there it is. 24 MS. O'DELL: Objection. 24 MS. O'DELL: Five. 25 MR. FROST: It looks like that. It's 25

Page 274 Page 276 1 five. 1 finished talcum powder, correct? 2 BY MR. FROST: 2 MS. SCOTT: Objection. 3 3 MS. O'DELL: Objection. Q. I'll skip this. You said you haven't 4 read anything. You don't know about that, so it's not I'm sorry. Repeat the question. something that comes up in your work? BY MR. FROST: A. I don't remember. Q. Sure. You can't tell me without 6 7 That's fine. I'll move on for sake of speculating that levels of -- we're looking at nickel, time. All right. for example, here, found in ore samples are the same 9 levels that would be located in finished talcum powder, Now, you've also noted in your report 10 various opinions about findings of nickel, chromium and 10 correct? 11 cobalt, correct? 11 MS. SCOTT: Objection. 12 12 A. A. Correct. The levels of metals may be the Yes. 13 And you're not qualified to opine as to same, may be less or may be more depending upon the whether or not a particular level of nickel is process. sufficient to cause human disease, correct? 15 BY MR. FROST: 16 MS. SCOTT: Objection. 16 Q. And things like beneficiation, blending, 17 things of this nature would ultimately affect what ends A. I am not a toxicologist. 18 BY MR. FROST: up in the final product, right? 19 Q. You're also not qualified to opine what, 19 A. If it's executed correctly, but I think 20 if any, disease may be associated with nickel 20 it's also reasonable to say that some -- it is contaminated or with nickel exposure, correct? scientifically likely -- it's my opinion that some of 22 MS. SCOTT: Objection. 22 this would, from the ore samples, would make it into 23 A. I'm not a toxicologist or oncologist. product if it is used for that purpose. BY MR. FROST: 24 Q. But you can't tell me, of these ore 25 Q. I'm looking at your report, starting on 25 samples, what sample may or may not have made --Page 275 Page 277 A. I can't tell you where, what bottle that 1 page 34. 2 2 might have ended up in, yes. I'm right there. Q. Or if it even could have ended up in the Some of these tests, you'll agree with 4 me, you know, not that they're from ore. Several of bottle, correct? 5 them actually note that they're from ore grade 66. MS. SCOTT: Objection. Windsor 66, you agree, is an ore, correct? BY MR. FROST: 7 MS. O'DELL: Object to the form. Q. At that --8 8 Specifically, no. A. I'm sorry? A. 9 BY MR. FROST: 9 Q. Okay. 10 Q. You'd agree with me, looking at these, 10 A. If you process it, you may modify it one 11 that the marks that say "ore in concentrate, grade 66, way or the other. 11 12 Windsor 66," et cetera, these are all ore samples, 12 The same thing would also be true with correct? respect to the chromium, cobalt, and I think this is the 14 MS. SCOTT: Objection. only other ones, right, chromium, cobalt that are listed 15 A. I think so. I'd like to look at the in the charts? Yes. 16 MS. SCOTT: Objection. 16 document to be sure. 17 BY MR. FROST: 17 BY MR. FROST: 18 Q. I mean, you can go on them, such as the 18 The same would be true with chromium and Q. example of Imerys 045182. It says three ore samples? 19 cobalt, right? 20 Yeah. So that's what it's listed as. 20 Chromium, cobalt, nickel. Chromium cobalt, nickel -- I'm just checking and double checking. 21 yes. 22 22 Chromium, cobalt, and then it's not in chart form, but I So you'd agree with me without 23 speculating, you can't say one way or the other that 23 do talk about arsenic on page 33. 24 levels, as detected in the ore samples, are actually the 24 And it would be the same for the 25 chromium, cobalt, nickel and arsenic based on ore sample 25 levels that may have ever made it into a bottle of

Page 278 Page 280 1 testing? You couldn't say one way or the other what 1 Q. It you turn to, I believe, Exhibit 2, 2 level ultimately made it into, if at all, talcum powder, your supplemental report. 3 finished talcum powder, correct? 3 A. Okay. MS. SCOTT: Objection. 4 Q. Okay. The second page. 5 5 A. Yes. A. Okay. 6 BY MR. FROST: 6 Under sampling and techniques, do you see Q. With respect to chromium, which is page it's one, two, three, four down? 36 of your report, sir? Under "Sampling and Testing"? 9 A. Uh-huh. Under "Sampling and Testing Results," 10 You know that chromium can occur in two yes. You know that it failed to provide data 11 different forms, Chromium III and Chromium VI? supporting -- no. I'm in the wrong place. 12 It's a slight typo. What I mean to say 12 A. I'm sorry. Where were you? 13 there is chromium can occur in two common forms and 13 Sorry. I was in the wrong place. Bear minerals, Chromium III and Chromium IV. So chromium can with me a second here. Okay. It's the one, two, third paragraph down. It starts with "Another issue." actually have several different valent states to it --16 And it's Chromium VI --16 A. Yeah. 17 -- including the zero valent metal, which 17 So "Another issue was the vague 18 we don't really see in nature. description of the preparation technique. The method 19 O. And it's chromium 6, correct, that is the fails to identify whether the material was ground, 20 known carcinogen? crushed or made into a powder by another method." Do Yeah. That is one of high concern, as I you see that there? 21 A. 21 22 22 understand it. A. Yes. 23 23 Q. Are you generally aware that Chromium III O. If you look up to the testing, it says, is actually an essential element in the human body? "XRD methodology states." Do you see where I am there? 25 I'm a diabetic. Yes. A. Yes. Page 279 Page 281 Q. Okay. And are you also aware that Q. It's the part that's indented. 1 chromium 3 is commonly found in rocks and minerals? ² Underneath, it says, "Monthly talc composite, February 3 1990." 3 A. And, again, in looking at the chart, you A. 5 don't list here whether or not it is Chromium III, Do you agree with me that the monthly Q. 6 Chromium VI or some other variant of the mineral -- or 6 talc composite is a composite of the ground finished the metal, correct? talc that's being tested? A. Correct. But I think it's reasonable 8 MS. SCOTT: Objection. 8 9 that -- yes. There's no specific determination of A. I'm unsure. I'm unsure. The -- you --10 valent state, which would have been a nice step if you one would essentially prepare the -- I'm sorry. Go 11 could definitively show that there is no chromium or 11 ahead. 12 active valent chromium that would have been a good 12 BY MR. FROST: 13 thing. But, yes, there's no specific EELS, electron 13 O. Yes. 14 energy loss spectroscopy, or what comes through A. I'm unsure. 15 You can't tell me whether or not this was 15 techniques to determine that. 16 Q. And with respect to the arsenic, the the composite sample of the already ground and prepared 17 cobalt and the chromium, just like the nickel, you can't talc? 18 tell me what level of exposure is required to cause I don't -- I don't remember specifically. 19 disease of those heavy metals, correct? And if the talc was already ground as a finished product, there wouldn't be further grinding of 20 I am not a medical or oncologist, sir, A. it. Do you agree with that? 21 yes. Q. And it's the same thing. You couldn't 22 MS. SCOTT: Objection. 22 23 tell me what diseases they're known to cause if you have 23 A. So as I understand, the final talc 24 exposure, correct? particle size is approximately 15, 25 microns or so, so 25 A. Correct. 25 that's essentially fine salt size. So, typically, in

Page 282 Page 284 1 power diffraction, you would want to reduce that 1 A. Yes. ² particle size further. Q. And you've published a hundred and ³ BY MR. FROST: something; is that right? A. Over 40 peer-review papers. I have over Q. Did you see anywhere in reviewing this a hundred presentations at meetings and a couple testing that they state that they reduce the particle size further? patents, yes. 7 MS. O'DELL: If you need to review the Q. In your peer-review papers, when you're 8 document, Doctor, we can pull it. citing authorities in your peer-review papers, you tend 9 to or customarily cite peer-reviewed papers, don't you? Yeah. Why don't we pull it up? 10 BY MR. FROST: 10 A. Generally, yes. 11 Sure. I don't have it. That's fine. We 11 Q. Because you know that they have the O. 12 can move on. I don't want to waste my time. 12 likelihood to be more accurate and have been, obviously, 13 MS. O'DELL: To ask him questions, reviewed by peers, correct? 14 specific questions about the document not having MS. O'DELL: Object to form. 15 15 A. Correct, yes. 16 MR. FROST: I'm just asking -- I'm just 16 BY MR. FERGUSON: 17 17 asking if he knows and what he remembers in Q. Now, in your report that you did in this 18 drafting his report. case, and I know it's been marked as an exhibit. I 19 All right, sir. I think that's all the forget which number. In your report in this case, you 20 questions I have for now. I reserve the right have, among other authorities, cited Dr. Longo and 21 to look at my notes and come back, but I'm going Dr. Rigler's report, correct? 22 to yield my time to some of the other 22 A. I've cited expert witness reports, yes. 23 23 defendants. We can go off the record. And you understand that Dr. Longo and 24 VIDEOGRAPHER: We're now going off 24 Rigler's report, that's not peer reviewed, correct? You 25 record. The time is 6:19. 25 understand that? Page 283 Page 285 (A recess was taken from 6:19 to 6:33.) Yes, I do. 1 A. 2 VIDEOGRAPHER: We are now back on record, So while your custom is to cite Q. 3 and the time is 6:33. 3 peer-reviewed articles in your scientific papers that **CROSS-EXAMINATION** 4 you're writing, you've varied from that in doing your 4 5 BY MR. FERGUSON: 5 report here in this matter, correct? 6 Q. Good evening, Dr. Krekeler. How are you? MS. O'DELL: Object to the form. 7 A. A. Yes. So I have not in my previous work 8 Q. Okay. We met briefly before. My name is cited an expert witness report. 9 Ken Ferguson, and I represent Imerys. Do you understand BY MR. FERGUSON: 10 that? 10 Q. And you understand that Dr. Longo and his 11 11 colleague, Dr. Rigler, and I think they wrote these A. Yes. Okay. And I've got, along with Mr. Cary, 12 reports together, that they are being paid as experts by 13 who's down, three people down from me. counsel for plaintiffs just as you are, correct? 14 A. Okay. 14 MS. SCOTT: Objection. 15 15 Q. I've got some questions for you. I'm not A. I believe that is the case, yes. 16 going to spend a lot of time, because there's not a lot BY MR. FERGUSON: 17 17 of time left, so I may skip around a little, just Q. I want to talk to you a little bit about 18 depending on which questions I feel like I need to get a book that I see you've got your copy out. I've got my 19 asked before I run out of time. So I'm not trying to copy out, and we have some copies we've made that I'm 20 confuse you by that, but if I do, then you let me know, going to mark as Exhibit 23, I believe. 21 and I'll restate the question, okay? 21 (Exhibit 23 was marked for 22 22 A. Okay. identification.) 23 Okay. Fair enough. 23 BY MR. FERGUSON: 24 So in your career as an academic, you've 24 Q. Now what I've marked, Dr. Krekeler, are 25 written scientific papers before, correct? 25 some pages from a book called "An Introduction to the

	mark & eler, Ph.D.				
	Page 286		Page 288		
	Rock-Forming Minerals" by Deer, Howie and Zussman,	1	(=:::::::::::::::::::::::::::::::::::::		
2	correct?	2	identification.)		
3	A. Is this the same edition?	3			
4	Q. I believe I believe it's the third	4	Q. And this is a paper by a Harold R.		
5	edition.	5			
6	A. Oh, I'm sorry.	6	A. That's what it says.		
7	Q. And yours is?	7	Q. And it says, "The Mineral Industry of		
8	A. Third. Yeah, we're good.	8	Italy," correct?		
9	Q. This is a book that is often relied upon	9	A. Yes. What journal did this come from?		
10	by mineralogists, correct, material scientists?	10	Is this peer review?		
11	A. This is a book that is used as a textbook	11	Q. I don't know. I believe it is, but I		
12	for mineralogy courses, yes.	12	don't know the answer, so I'm not going to answer it.		
13	Q. So let's go back to your report, and if	13	A. You believe or it is?		
14	you would, just keep the Deer, Howie and Zussman by your	14	Q. I get to ask the questions.		
15	side. Go to your report at page 5. Are you with me?	15	A. All right.		
16	A. Page 5.	16	Q. We have Harold Newman's paper here, okay?		
17	Q. And in the first paragraph on page 5 of	17	A. Okay.		
	your report, there's a sentence in the middle that says,	18	Q. From The Mineral Institute of Italy,		
	"As a result, natural talc formation is commonly	19	right?		
20	accompanied by veins of other minerals, including	20	A. Mineral Industry of Italy, one.		
21	asbestiform minerals like tremolite and serpentine,"	21	Q. So look at page		
22	correct?	22	A. I'm sorry?		
23	A. Yes.	23	Q. Look at page 428, please.		
24	Q. And you cite for that Deer, Howie &	24	A. 428?		
25	Zussman 2013, correct?	25	Q. Yes. And you see on the right-hand		
	Page 287		Page 289		
1	Page 287 A. Yep.	1	Page 289 column, this is a paragraph that has "Talc" in bold at		
1 2	A. Yep.		column, this is a paragraph that has "Talc" in bold at		
2	A. Yep.Q. And the citation down below cites, for		S		
2 3	A. Yep.	2	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct?		
2 3	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165,	2	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct.		
2 3 4	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct?	2 3 4 5	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to		
2 3 4 5 6	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads.	2 3 4 5	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e		
2 3 4 5 6 7	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert	2 3 4 5 6	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground		
2 3 4 5 6 7	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that	2 3 4 5 6 7	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground		
2 3 4 5 6 7 8	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly	2 3 4 5 6 7 8	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct?		
2 3 4 5 6 7 8 9	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including	2 3 4 5 6 7 8	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc,		
2 3 4 5 6 7 8 9	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including asbestiform minerals like tremolite and serpentine,"	2 3 4 5 6 7 8 9	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc, mined from metamorphic rocks, has been of very high		
2 3 4 5 6 7 8 9 10	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including asbestiform minerals like tremolite and serpentine," correct?	2 3 4 5 6 7 8 9 10	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc, mined from metamorphic rocks, has been of very high		
2 3 4 5 6 7 8 9 10 11 12	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including asbestiform minerals like tremolite and serpentine," correct? A. Yes.	2 3 4 5 6 7 8 9 10 11	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc, mined from metamorphic rocks, has been of very high quality," correct?		
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including asbestiform minerals like tremolite and serpentine," correct? A. Yes. Q. Let's move on because I'm not sure I have	2 3 4 5 6 7 8 9 10 11 12 13	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc, mined from metamorphic rocks, has been of very high quality," correct? A. That is what it says. It doesn't say		
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yep. Q. And the citation down below cites, for that assertion, pages 145, 149, 151 and 164 to 165, correct? A. Yes. That's what it reads. Q. And it's your contention in your expert report that those pages stand for the proposition that we just read the "natural talc formation is commonly accompanied by veins of other minerals, including asbestiform minerals like tremolite and serpentine," correct? A. Yes. Q. Let's move on because I'm not sure I have it time to sit and read them all now. Let's move on to	2 3 4 5 6 7 8 9 10 11 12 13	column, this is a paragraph that has "Talc" in bold at the beginning of the paragraph, correct? A. Correct. Q. And it says and I won't try to pronounce the Italian names. We had enough trouble with Chinese names earlier on, but "Talco" I'll try "e Grafite Val Chisone S.p.A. operated two underground mines at Pinerolo near Turin," correct? A. That is what it says. I didn't know. Q. And next sentence says, "The white talc, mined from metamorphic rocks, has been of very high quality," correct? A. That is what it says. It doesn't say what high quality for. Is it the table in the back,		
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Page 290 Page 292 1 Authentic Historical Italian Cosmetic Talc Sample 1 about his report while you're pulling that up, ² Further Evidence for the Lack of Cancer Risk," correct? 2 if you wouldn't mind? 3 MS. O'DELL: Yeah, sure. I've got it 3 And analysis of an, implying one, 4 authentic historical Italian. Yes, that's what the 4 right here. 5 title is. BY MR. FERGUSON: 6 Exactly. It does say "an," a-n? Could look at page 31 of your report, 6 7 A single or it's implied that's a single Dr. Krekeler? sample. I have not seen this paper before. A. I'm at page 31. 9 Q. Can you look with me at the first line of Are you with me, sir? Okay. Just above Q. 10 the abstract, where it says, "Italian talc from the the heading of "Toxic Metal Contamination," is a 11 Pinerolo Mines in northwest Italy is known for its paragraph that starts "In summary." And do you see a sentence there that says, "Defendants admit that the 12 extreme purity," correct? 13 beneficiation process does not remove asbestos"? Do you That is what it says. It doesn't say 14 with respect to what, so and then -- so it's an see that sentence? 15 15 abstract. It should be a summary from introductory A. I do see that sentence. 16 materials, so let's see if they discuss that in the 16 And for that proposition, you cite the 17 introduction. "It is known for its extreme purity. deposition of Patrick Downey at page 407, pages -- line. 18 More than 60 years of epidemiological studies have Excuse me. Lines 13 through 16, correct? That's what 19 failed to demonstrate any attendant cancer risk." So -you cited? 20 20 Q. I don't need you to read it out loud. I A. Correct. 21 21 apologize for interrupting. Obviously, time is limited. All right. Let's look, if we may, look O. 22 You've answered my question, so what we know is that 22 at Exhibit 26, and the second -- the first page of that 23 Mr. Newman and Dr. Ilgren disagree with your comment is just the cover page to Mr. Downey's deposition. 24 that the Italian talc is not good quality, correct? 24 Could you turn to the second page, and let's look at 25 MS. O'DELL: Object to the form. 25 page 407, lines 13 to 16, which you cited. Page 291 Page 293 A. They can disagree, correct. So 407? 1 1 A. 2 BY MS. ROSE: 2 O. Yes, sir. At one point in your report on page 13, 13 to 16. Can I have a moment to read 4 you say that, "Usually, companies have a dedicated the context above it and stuff? 5 in-house laboratory for these analyses." O. Certainly, sir. 6 Yes. Oil Dry as an example. There's To refresh my memory? A. 7 other companies that have, you know, extensive labs, and Certainly, sir. Ready to go? Got the O. also, people rely on third-party labs to check their 8 context? 9 Yes. 9 internal labs. A. 10 Q. And you're aware that Imerys has had and 10 All right. So if we look at lines 13 O. 11 has a dedicated in-house laboratory as well, correct? through 16, that is an answer by Mr. Downey where he 12 says, "I don't know if -- I'm not familiar, and I don't I believe so, yes. 13 And, in addition, Imerys has had occasion 13 know if flotation was intended to remove asbestos, but Q. to send samples to third-party laboratories as well, to my knowledge, our products don't contain asbestos 15 so." Did I read that correctly? correct? 16 16 Yes, you did read that correctly. A. Correct. 17 17 Let me mark for you Exhibit 26 to your So, in fact, Mr. Downey is not, as you Q. 18 deposition, please. say, admitting that the beneficiation process does not 19 (Exhibit 26 was marked for remove asbestos. Instead, what he says is I don't know 20 identification.) if flotation was intended to remove asbestos, correct? 21 MS. O'DELL: Let me get that out here. That's what it says. I took it as -- he 22 MR. FERGUSON: Sure. No problem. Let me said "I don't know" twice, "I'm not familiar." And it know when you're ready. 23 23 says, "I don't know if flotation was intended to remove

MS. O'DELL: Yeah. Okay.

MR. FERGUSON: Can I ask him a question

24

25

Q. But you would agree he did not admit that

24 asbestos." So the text is correct, yes.

25

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- 1 the beneficiation process does not remove asbestos,
- 2 correct?
- 3 MS. SCOTT: Objection.
- 4 He doesn't know if it was intended or not
- 5 is how -- that's how I interpret it. Others can
- 6 interpret it in other ways.
- BY MR. FERGUSON:
- Would you look at the bottom of page 31, O.
- 9 please, of your report?
- 10 Okay. On page 31. I see it, yes. A.
- 11 And you see it says, at the bottom, it
- 12 starts a sentence, "In fact, these chemical elements are
- 13 inherent properties of talc ore, a fact acknowledged by
- 14 Julie Pier in her deposition." And then you cite Julie
- 15 Pier Deposition, page 211, lines six through 13 from the
- 16 September 12, 2018, session of her deposition. Do you
- 17 see that?
- 18 A. Yes, I do.
- 19 Q. And could you go to your left and pick up
- 20 Miss Pier's deposition? And both sessions are there.
- 21 If you could, look at the -- they're in reverse order, I
- 22 noticed before, so would you look at the deposition that
- 23 is the second one in that notebook? It's the second
- 24 one. It's not the first one because they're in reverse
- 25 order. That's the September 13 session, I notice, and

- A. I have -- "I have just a general broad
- 2 understanding that as it's crushed, an automatic sampler

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Page 297

- 3 takes a sample at specific time intervals." That's
- through line 13.
- Q. All right. So would you agree with me
- 6 that in that portion of the deposition, Ms. Pier does
- not acknowledge the fact that chemical elements are
- inherent properties of talc ore, correct?
 - A. Correct.
 - It doesn't say that at all, does it? O.
- 11 A. Yeah. I must have made a mistake with
- 12 the numbering.

10

21

24

- 13 O. You also state in your report that Imerys
- admitted in depositions that -- well, let me skip back
- because I don't have my citation. So let's -- let's
- move on to another topic. I may come back to that if I
- have time, okay?
- 18 Right. Do you want me to put the Pier A.
- 19 deposition away?
- 20 Yeah, for now. Q.
 - I'll set it aside. A.
- 22 Yeah. Keep it handy in case we have time
- 23 to get back to that.
 - A. Okay.
- 25 Now, you have taken, as you -- as we

Page 295

- 1 you can go all the way past those. There you go.
- 2 I'll try not to break the stuff.
- 3 Q. Can we look at page --
- A. You said -- is it 211? 5 Yes, sir. Page 211, please, sir. Q.
- 6 I turned right to it. 211. A.
- 7 Q. Okay.

4

10

16

- 8 A. And you're interested in lines 6 through
- 9 13? Is that your question?
 - Right. And what you've asserted is
- 11 that -- you cite that for the proposition, "In fact,
- 12 these chemical elements are inherit properties of talc
- ore, a fact acknowledged by Julie Pier."
- 14 Can you read for me page 211, Lines 6
- 15 through 13 of the September 12 deposition?
 - Well, this has to do -- can I first read
- the context a little bit to refresh myself? 17
- 18 Right now, I'd like you to read what --O.
- 19 A. Okay. I can just read the text.
- 20 Yeah, what you cited. O.
- "Well, this has to do with sampling
- 22 that's done at the operation. I'm thinking that Pat is
- 23 in -- If you don't know, you can tell me that."
- 24 Question. "I'm" -- dash dash dash or -- "..."
- 25 Are you past line --

- 1 discussed earlier, you have taken the report of
- 2 Drs. Longo and Rigler and relied upon it for your
- 3 report, correct?
 - A. Correct.
- And that has to do with whether there are
- 6 contaminants in talc that is sold by Imerys and by
- Johnson & Johnson, correct? That's what they addressed?
 - A. Correct.
- Now, are you an aware, Dr. Krekeler, that
- the United States Food & Drug Administration actually
- performed a survey of talc and body powders and cosmetic
- raw material talc?
- 13 A. I believe so. I looked at an FDA
- document on the Internet, and if I remember correctly --
- I would want to check -- there was four suppliers that
- provided talc products, and they did not find any
- indications or it was nondetects for those many samples.
- But I also remember that the FDA also said that -- I'd
- have to look at it for the exact language, but,
- essentially, the FDA couldn't fully assure that talc is
- free of asbestos, I think. Do you have that?
- 22 MR. FERGUSON: Yeah. Let's go ahead and 23 mark as Exhibit 27 the FDA survey.
- 24 (Exhibit 27 was marked for
- 25 identification.)

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	Page 298		Page 300
1	A. I don't know if it's exactly the same one	1	Q. Let's call it rows.
2	that I looked at.	2	A. Oh, rows. Okay. All right.
3	MR. BILLINGS-KANG: Ken, was the Pier	3	Q. Okay.
4	deposition marked at all?	4	A. So for these seven rows, yes.
5	MR. FERGUSON: No. I didn't mark it. I	5	Q. Okay.
6	can mark it.	6	A. There's no asbestos detected for those
7	MS. SCOTT: 27?	7	seven samples.
8	MR. FERGUSON: Yes.	8	Q. Okay. And if we go to the
9	A. It's a printed, so it looks like a	9	second-to-the-last page of that exhibit in fact, it's
10	different format than maybe the one I looked at. The	10	the last page that has typing on it.
11	tables look familiar.	11	A. The second-to-the-last page.
12	BY MR. FERGUSON:	12	Q. Are you there?
13	Q. So since our time is growing short, if	13	A. Okay.
14	you would, it looks familiar?	14	Q. Do you see there's a column that is or a
15	A. Okay. Yeah. I I do think it's the	15	chart that is entitled "Body Powder," correct?
16	one I looked at, I think.	16	A. Correct.
17	Q. Go to the second page of the exhibit, and	17	Q. And there's a line, a row for Johnson's
18	you see that it has a heading and a little chart saying	18	Baby Powder, correct?
19	"Cosmetic-grade raw material talc," correct?	19	A. Correct.
20	A. The second page, the heading is "How FDA	20	Q. That says no asbestos detected by PLM or
21	followed up on the latest"?	21	-
22	Q. Yeah. If you go to the bottom, there's a	22	A. Correct.
	little chart with a heading that says, "Cosmetic-grade	23	Q. And a row for Shower or Shower, Morning
	raw material talc," correct?	24	
25	A. Yes.		asbestos detected by PLM and TEM, correct?
	11. 105.		assessos detected by 1 EW and 1 EW, correct.
	Page 299		Page 301
1	Q. And you see under "Supplier," it says,	1	A. At the very bottom, yes.
2	"Rio Tinto Minerals/Luzenac America," correct?	2	Q. So in this Food & Drug Administration
3	A. Correct.	3	survey that was done, the results were different than
4	Q. And if you look at that and the next	4	the ones that Drs. Longo and Rigler came up with,
5	page, there are seven lots that were tested from Rio	5	correct?
6	Tinto Minerals/Luzenac America, correct?	6	MS. O'DELL: Object to the form.
7	A. One, two, three, four. Yes. Seven?	7	A. Well, it's not the same sample size.
8	Q. Yes, sir.	8	And. yeah, this is the same report. As it says, "For
9	A. From Rio Tinto.	9	these reasons, while FDA finds these results
10	Q. Okay. And there's a column for	10	informative, they do not prove that most or all talc or
11	"Percentage Asbestos by PLM." That's polarized light	11	talc-containing cosmetic products currently marketed in
12	microscopy, correct?	12	the United States are likely to be free of asbestos
13	A. Yes. There's a column for that.	13	contamination. As always, when potential" yeah.
14	Q. And there's a percentage asbestos by TEM	14	This is, yeah. This is the, yeah.
15	or transmission electron microscope, correct?	15	BY MS. ROSE:
16	A. Yes. There's a column for that.	16	Q. But we know that they tested Luzenac, raw
17	Q. Okay. And in all 14 columns, it notes no	17	material talc and Johnson & Johnson body powder,
18	asbestos detected, correct?	18	correct?
19	MS. O'DELL: Objection.	19	A. Correct. Yes.
20	A. Fourteen columns?	20	MR. FERGUSON: What are we doing on time,
140		21	if you wouldn't mind letting me know?
21	BY MS. ROSE:	1	
	Q. Well, there's seven for PLM, seven for	22	VIDEOGRAPHER: You've been on record six
21	Q. Well, there's seven for PLM, seven for	22	VIDEOGRAPHER: You've been on record six hours and 51 minutes.
21 22	Q. Well, there's seven for PLM, seven for TEM?		hours and 51 minutes.
21 22 23 24	Q. Well, there's seven for PLM, seven for TEM?	23	

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	Page 302		Page 304	
1	MR. FERGUSON: Plenty of time.	1	jet mills and are classified and separated from other	
2	THE WITNESS: Are we done with this one?	2	minerals by froth flotation or magnetic separation,"	
3	MR. FERGUSON: Yes, sir. We're done with	3	correct?	
4	that one.	4	A. Yes. And there's no citation for that.	
5	BY MS. ROSE:	5	Q. And the IARC working group does note that	
6	Q. Let me ask you one more area, one more	6	the techniques by which top ores may be processed	
7	area, and then I'll quit.	7	include hand sorting, correct?	
8	MR. BILLINGS-KANG: I'm going to give him	8	A. Correct, yes. That's in the second line	
9	my time.	9	on the paragraph. That's what they say. Again, it's	
10	MR. FERGUSON: Okay.	10	not cited, so I'm not sure where they get the	
11	MR. CARY: Time for the gentleman from	11	information from, but they say that.	
12	Texas.	12	MR. FERGUSON: Can we go off for one	
13	MS. O'DELL: It's like we're in the	13	second? I know we're almost done, please.	
14	Senate or House.	14	VIDEOGRAPHER: We're now going off	
15	MR. FERGUSON: The House. I hope not.	15	record. The time is 7:05.	
16	MR. FROST: Won't do too well for that.	16	(Off the record.)	
17	MS. SCOTT: I was just going to say the	17	VIDEOGRAPHER: We are now back on record.	
18	same thing.	18	The time is 7:07.	
19	BY MR. FERGUSON:	19	BY MR. FERGUSON:	
20	Q. Could you get the IARC 93 monograph,	20	Q. Dr. Krekeler, could you turn to page 42	
21	which I believe is Exhibit 5?	21	of your report?	
22	A. IARC 93. IARC 93. Yep. Exhibit 5, yes.	22	A. 42 of my report?	
23	Q. All right.	23	Q. Yes, sir.	
24	MR. FERGUSON: And I'm sorry, Leigh and	24	A. 42.	
25	Carmen, do you guys have? Okay.	25	Q. Not of the IARC.	
	Page 303		Page 305	
	1 age 303		1 agc 303	
1	MS_O'DELL: What page?	1	A Oh I thought we were still talking about	
1 2	MS. O'DELL: What page? MR. FERGUSON: Lam going to be looking.	1 2	A. Oh, I thought we were still talking about that I'm sorry	
2	MR. FERGUSON: I am going to be looking	2	that. I'm sorry.	
2	MR. FERGUSON: I am going to be looking at page 286.	2	that. I'm sorry. Q. No. I apologize. Of your report?	
2 3 4	MR. FERGUSON: I am going to be looking at page 286. BY MR. FERGUSON:	2 3 4	that. I'm sorry. Q. No. I apologize. Of your report? A. Okay.	
2 3 4 5	MR. FERGUSON: I am going to be looking at page 286. BY MR. FERGUSON: Q. Can you find page 286?	2 3 4 5	that. I'm sorry. Q. No. I apologize. Of your report? A. Okay. Q. Okay?	
2 3 4 5 6	MR. FERGUSON: I am going to be looking at page 286. BY MR. FERGUSON: Q. Can you find page 286? A. 286. 285, 286. I found it.	2 3 4	that. I'm sorry. Q. No. I apologize. Of your report? A. Okay. Q. Okay? A. Yep.	
2 3 4 5 6 7	MR. FERGUSON: I am going to be looking at page 286. BY MR. FERGUSON: Q. Can you find page 286? A. 286. 285, 286. I found it. Q. At the top of page 286, the section	2 3 4 5 6 7	that. I'm sorry. Q. No. I apologize. Of your report? A. Okay. Q. Okay? A. Yep. Q. Are you there?	
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2 3 4 5 6 7 8	MR. FERGUSON: I am going to be looking at page 286. BY MR. FERGUSON: Q. Can you find page 286? A. 286. 285, 286. I found it. Q. At the top of page 286, the section and, again, this is from the IARC monograph, correct? A. Correct.	2 3 4 5 6 7 8	that. I'm sorry. Q. No. I apologize. Of your report? A. Okay. Q. Okay? A. Yep. Q. Are you there? A. Yes. Q. Okay. So if you look at the last	
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	Mark & Fegeter, Ph.D.				
		Page 306		Page 308	
		book to your left? And this time, we're	1	Q. Well, those pages weren't missing. The	
	_	t the first deposition in the notebook because	2	words that you quoted were not just not on them,	
		versed, and that's the September 13th, 2018,	3		
		would you turn to page 25 in that	4	MS. SCOTT: Objection.	
5	depositio		5	A. It's unclear.	
6	A.	This starts at page 340.	6	BY MR. FERGUSON:	
7	Q.	Yes, it does.	7	Q. Do you think maybe this is another	
8	A.	So page	8	mistake or typo?	
9	Q.	Would you with agree with me there is no	9	A. I don't know.	
10		and no page 26 in the Julie Pier deposition	10	MR. FERGUSON: That's all I have,	
11	transcrip	from September 13th, 2018?	11	Dr. Krekeler. Thank you for your time, sir.	
12	A.	I don't know.	12	VIDEOGRAPHER: Do you want to go off?	
13	Q.	Well	13	MS. O'DELL: James, are you okay?	
14	A.	Let's look and see.	14	MR. BILLINGS-KANG: I'm fine. Thank you.	
15	Q.	You have the deposition transcript in	15	MS. O'DELL: How much time on the record?	
16	front of y	ou, sir.	16	VIDEOGRAPHER: Seven hours even.	
17	A.		17	MS. O'DELL: Let's go take a break.	
18	or two vo	olume. Some of these, I think, were two volume.	18	MR. FROST: Look at that.	
19	Q.	Well, sir	19	VIDEOGRAPHER: We are going off record.	
20	A.	So I think if yeah, I don't remember	20	The time is 7:13.	
21	specifica	lly, but if this is	21	(A recess was taken from 7:13 to 7:47.)	
22	Q.	Why don't you look at the very first	22	VIDEOGRAPHER: We are now back on record.	
23	page.		23	The time is 7:47.	
24	A.	The first page says 340. This is the	24	EXAMINATION	
25	page nun	nber.	25		
		D 205	+		
		Page 307		Page 309	
1	0.	Page 307 Look at the very first page there that	1	Page 309 BY MS, O'DELL:	
1 2	Q. vou're lo	Look at the very first page there that	1 2	BY MS. O'DELL:	
	you're lo	Look at the very first page there that oking at there, and does that say Julie Pier's		BY MS. O'DELL: Q. Dr. Krekeler, good evening. I've got a	
2	you're lo	Look at the very first page there that oking at there, and does that say Julie Pier's on from September 13th of 2018?	2	BY MS. O'DELL: Q. Dr. Krekeler, good evening. I've got a few questions for you to follow up.	
2 3 4	you're lo deposition A.	Look at the very first page there that oking at there, and does that say Julie Pier's on from September 13th of 2018? Actually, on this page, there is not	2 3	BY MS. O'DELL: Q. Dr. Krekeler, good evening. I've got a few questions for you to follow up. A. Okay.	
2 3 4	you're lo deposition A. oh, Septe	Look at the very first page there that oking at there, and does that say Julie Pier's on from September 13th of 2018? Actually, on this page, there is not ember 13th, 2018.	2 3 4 5	BY MS. O'DELL: Q. Dr. Krekeler, good evening. I've got a few questions for you to follow up. A. Okay. Q. First, you were asked a number of	
2 3 4 5 6	you're lo deposition A. oh, Septe Q.	Look at the very first page there that oking at there, and does that say Julie Pier's on from September 13th of 2018? Actually, on this page, there is not ember 13th, 2018. And just as you told us, there is no page	2 3 4 5	BY MS. O'DELL: Q. Dr. Krekeler, good evening. I've got a few questions for you to follow up. A. Okay. Q. First, you were asked a number of questions about Italian talc and the talc ore deposits	
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Page 310 Page 312 1 A. Yes. 1 BY MS. O'DELL: 2 Q. And are the test results depicted on page Q. In fact, at the top, in the first full paragraph, it says, "The TEM micrograph in Figure B1 ³ 14 -- well, let me just ask you this way. Where did the 4 test results depicted in the table on page 14 of your 4 shows a number of platy talc particles. Figure B-2 expert report, where did they originate from? 5 shows platy talc particles and an elongated fragment of There are five examples from 1957 to '58 6 talc." 6 7 from Italy. A. Of talc. Two -- yeah. "Two other And you were also handed by Mr. Ferguson 8 tremolite fibers were detected," and then it restates O. 9 what's been marked as Exhibit 25. I don't recall if you that numerical concentration of tremolite fibers in talc 10 recall a document entitled, "Analysis of an Authentic was the number that I mentioned previously. 11 Historical --11 BY MS. O'DELL: 12 A. 12 Yes. Q. And so does, in fact, Exhibit 25 support 13 -- "Italian Cosmetic Talc Sample." Do your opinion that Italian talc is contaminated with 14 you recall that? 14 asbestos? 15 15 A. Yep. MR. BILLINGS-KANG: Objection to form. 16 Do you have it in front of you? 16 MR. FROST: Objection to form. Q. 17 A. Yes. BY MS. O'DELL: 18 And Mr. Ferguson asked you to read the 18 Q. Now, let me ask you to turn to your Q. 19 first sentence of the abstract which addressed "the report specifically. Oh, one question. You were asked extreme purity" of Italian talc. Do you recall that? a few questions today about the beneficiation process, 20 21 A. Correct. Yes, I do. and if there is asbestos fibers present in talc ore, is 22 Did this report that's been marked as 22 there anything in the beneficiation process that you 23 Exhibit 5 actually report the presence of tremolite 23 would expect to remove the asbestos fibers from the fibers in Italian talc? 24 talc? 25 25 Yes. There's -- it reports the numerical Not efficiently. A. Page 311 Page 313 1 concentration of tremolite fibers in the talc sample was Q. Let me ask you to turn to page 35 of your ² report. Actually, 36. 2 3.67 -- 3.687 times 10 to the negative 6 fibers per 3 gram, so that is over 3 million fibers per gram A. Okay. I'm on page 36. 4 corresponding to a mass concentration of .722 parts per And, actually, you can look at, actually, 5 million. either 35 or 36, but are the test results and the 6 Q. And if you'll turn to page 3 of this 6 samples that are of the samples reported in the table on page 35, and do many of them include the results of 7 exhibit --8 annual composite samples? MR. FROST: Leigh, what exhibit is this? 9 9 MS. O'DELL: 25. A. Yes. 10 MR. FROST: 25. Okay. 10 Q. And are -- what are annual composite 11 MS. O'DELL: It's what Ken marked. 11 samples? 12 MR. FROST: Oh, I thought you said five. 12 They are, essentially, talcum powder I apologize. 13 13 that's ready to go as a consumer product, essentially a 14 MS. O'DELL: Did I? Sorry. Thank you. consumer product. 15 MR. BILLINGS-KANG: You said five. 15 Q. And annual samples would be composed of 16 MS. O'DELL: I don't think you heard the 16 processed talc? 17 17 two, but 25 is what I'm referring to. A. Yes. 18 18 MR. FROST: Thank you. And let me ask you to look at page 36, 19 BY MS. O'DELL: where you report some of the findings regarding 20 Q. On page 3 of the exhibit, Dr. Krekeler, chromium. Did Johnson & Johnson conduct testing of its did the authors of this report also report the presence talc powder that was specific enough to identify whether of fibrous talc in this particular sample? the type of chromium contained was either hexavalent MR. BILLINGS-KANG: Object to form. 23 chromium or trivalent chromium? 24 Yes. I believe I saw it in here. 24 MR. BILLINGS-KANG: Objection to form. 25 25 MR. FROST: Objection to form.

Page 314 Page 316 No. I saw no evidence of any testing to 1 1 geologic terrain. 2 determine whether chromium was in the three-plus state And in the comments that are included in 3 or the six-plus state. 3 the Ross paper would cover the geologic formations that MR. FROST: Move to strike the response 4 were used to source Johnson & Johnson's talcum powder in 5 as speculative. Vermont? 6 BY MS. O'DELL: 6 A. Yes. 7 MR. FROST: Objection to form. Calls for Q. Is that also true -- is that also true of the testing that was conducted by Imerys? 8 speculation. 9 MR. FROST: Objection to form. BY MS. O'DELL: Q. Let me ask you to turn to Exhibit 11, 10 I'm sorry. Can you repeat the question? 10 11 BY MS. O'DELL: 11 which should be right --12 Q. Is that -- is that also true of the 12 A. Eleven. 13 testing that was conducted by Imerys regarding chromium? 13 -- in front of you there. Q. MR. FROST: Same objection. 14 14 A. 15 15 A. Yes. Q. And if you'll turn to page 2 of --16 BY MS. O'DELL: 16 Page 921 in the article? 17 17 Yes. Let me ask you, with the Q. You were asked a number of questions 18 regarding the ore deposits in Vermont. Do you recall constituents of the geology, geologic formation that is 19 those questions? described in Ross, and we'll get to it, but, also, in 20 A. Yes. Van Gosen, would those constituents, as described in those publications, be the same or similar to the mines 21 And you -- one of the exhibits that was Q. 22 marked in regard to Vermont was the Ross commentary that in Vermont that were used to source Johnson & Johnson's 23 you cited, and I believe it's in front of you. What's talcum powder? 24 the exhibit number, please? 24 MR. FROST: Objection to form. 25 Twelve, I think. 25 A. Yes. Page 315 Page 317 ¹ BY MS. O'DELL: 1 Q. Okay. 2 That's correct. Let me ask you to turn specifically to 3 And Exhibit 12 was a reference that you ³ Van Gosen, which we've marked as Exhibit 11 and cited in your report? specifically ask you to turn to page 933. 5 Correct. A. Okay. Yes. 6 Q. And is the Ross commentary supportive of Q. Does page 933 begin a description of 7 Vermont talc? your opinions? 8 8 A. Yes. A. Yes, it does. 9 O. Why? Does this description by Van Gosen apply 10 So, essentially, end of second column, to the, or is it relevant to the geology of the talc 11 "Ultramafic talc deposits of Vermont offer a third mines that were used to source J&J talc? 12 example of the complexities of rock formations 12 Yes, it is. 13 containing asbestos minerals. The core of the 13 MR. FROST: Objection. Calls for 14 ultramafic bodies is off a serpentine rock derived from speculation. 15 a hydrothermal alteration of a pre-existing pyroxene and 15 BY MS. O'DELL: 16 olivine-rich ultramafic rock. The serpentine core often 16 And if you'll turn to page 934, what is 17 grades outward into talc-serpentine-carbonate rock, then the description of the Vermont talc geology that Van 18 steatite (massive talc ore containing often small Gosen includes in his article? amounts of serpentine), then 'blackwall' rock (contains 19 So, sorry. On the previous page, the 20 amphiboles, chlorite, quartz, albite, et cetera), and alteration of zones are typically compromised by 21 finally the country rock. Equivalent ultramafic bodies sequence, provides details --21 22 22 in Quebec, Canada, form some of the world's largest Q. Doctor, read more clearly for the court 23 chrysotile deposits." 23 reporter, please. 24 So, essentially, this is all the talc 24 "Ultramafic rocks, grading to a 25 mines are all part of this one essentially extensive ²⁵ talc-carbonate-dominant zone, grading to a nearly

Filed 06/17/19 Page 82 of 86 PageID: er, Ph.D. Document Mark Page 318 Page 320 1 mono-mineralogical ... zone," all these other rich I had it somewhere. Yeah, 18. Yes. ² zones, Items 1 through 7. And then "Black-wall talc 2 And if you'll turn in Exhibit 18 to page Q. 3 11, is this a document that you relied on in reaching 3 deposits are associated spatially with serpentinite 4 masses that, in some areas, host well-developed your opinions? 5 chrysotile asbestos." And there's citations from 1942 A. Yes. I'll get to page --6 and '63. Page 11. 6 7 BY MS. O'DELL: Page 11, "Elemental Scan" at the top. A. And does this page address the presence Okay. And did it also say that some of O. the alteration zones contain actinolite, tremolite and of certain heavy metals in Chinese talc deposits? anthophyllite? 10 A. Yes. 11 A. Yes. 11 Q. And what metals specifically were 12 12 elevated? Q. And does the Van Gosen article support 13 your opinions in this case? A. Titanium. 14 MR. FROST: Objection. Calls for 14 Q. And based on this document, does the 15 speculation. writer include a comment below regarding the need to --16 Yes. well, let me just say for the writer's comments below A. regarding the presence? 17 BY MS. O'DELL: 18 A. "This very sophisticated analysis shows a Let me ask you now to turn to Exhibit 15, 19 which also should be in front of you. relatively wide array of elements in subtrace levels. 20 Other high grade talcs can show a similar array. The Fifteen. 21 It's the Chidester -analysis represents research information, which should O. 22 22 be conducted on a periodic basis to anticipate any A. Fourteen. 23 Fifteen. mineral contamination in future assessments of other O. 24 Okay. exposures of talc in the district." A. 25 So the Chidester article that was Q. Let me ask you to put that aside, please, O. Page 319 Page 321 1 referenced earlier, and I'll ask you to turn to page 28. 1 sir. Thank you. 2 If you'll turn --If you'll turn now to the IARC monograph, 3 I am on page 28. 3 which I think is on the '93 monograph, which is right A. Right. And does page 28 relate to the 4 4 there. Yes. Hammondsville talc mine? 5 A. This? Five? 6 A. Yes, it does. Q. That's right, Exhibit 5. 7 O. And was the Hammondsville talc mine one A. Okay. of the mines that was used to source Johnson & Johnson's 8 You were asked a number of questions Q. 9 9 about a statement that you made in your report about, I talc? 10 Yes. think along the lines of it was common to find minerals A. 11 And if you'll look on the right-hand such as tremolite, anthophyllite, asbestos in talc 12 side, on the second paragraph, do you see that? deposits. Do you recall those lines of questions? 13 13 Yeah. "The deposit consists entirely of A. Yes. 14 coarse, flakey grit and of steatite. No serpentenite And if you'll turn to page 284 of the 15 has been found. In the southwestern face of the quarry, 15 IARC monograph, 284, and this is the '93 monograph that there is a large mass of actinolite rock." relates to talc not containing asbestiform fibers. If 17 you look at the bottom of 284, what does it say in the Does that support your opinions in this IARC monograph regarding the presence of these minerals 18 case? 19 Yes. 19 in talc deposits?

20

23

20 MR. FROST: Objection. Form.

21 BY MS. O'DELL:

- Q. Let me ask you to set that aside and turn 22
- 23 to Exhibit 18. It's the document, the "Preliminary
- 24 Investigation of Cosmetic Talc Potential" in China,
- 25 Kwangsi, China. I think you had it in front of you.

24 And if you'll turn over to page 285, that

include chlorite, magnesite, dolomite, tremolite

A. It discusses minerals associated with

talc. "The most common minerals found in talc products

statement is further supported in Table 1.4?

anthophyllite, serpentine and quartz."

Page 322 Page 324 1 Yes. 1 BY MS. O'DELL: A. 2 MR. FROST: Object to form. Q. Dr. Krekeler, describe for us the 3 Tremolite is listed, anthophyllite is methodology that you've used in reaching your opinions 4 listed, actinolite is listed. in this case. 5 BY MS. O'DELL: A. I evaluated data, I evaluated x-ray Q. And is that supportive of your opinion 6 diffraction data, I evaluated core data, I evaluated 6 that those asbestos minerals are common in talc electron microscopy data, I evaluated bulk chemistry data, I evaluated descriptions, I used peer-review deposits? 9 literature, and these are essentially methods that would A. Yes. 10 MR. FROST: Objection to form. 10 be expected if I was working as a consultant in a 11 BY MS. O'DELL: 11 company. 12 Q. Let me ask you just a general question 12 Q. Did you rely on published books regarding the geology of Vermont, Italy and China? 13 first. How would you define fibrous talc? 14 Fibrous talc is a talc particle that has 14 A. Yes. 15 a morphology consistent with the definition of a fiber. 15 Q. To the degree they were available? 16 And would it be fair to say that fibrous 16 To the degree, yes. I would agree with talc could be defined as talc formed in an asbestiform 17 that. 18 18 habit? Is another common source that geologists Q. 19 MR. BILLINGS-KANG: Objection to form. 19 rely on publications such as the U.S. Geological Survey? 20 MR. FROST: Objection to form. 20 A. 21 21 O. And are there also publications from the A. Yes. 22 U.S. Bureau of Mines? 22 BY MS. O'DELL: 23 23 Let me ask you to look at Exhibit 22, ²⁴ Dr. Krekeler, which I think I had in front of you. It Q. And did you rely on those types of 25 materials in reaching your opinions in this case? 25 may be. Page 323 Page 325 Twenty-two? A. Yes. 1 1 2 Q. Yes. Is the methodology that you used 3 3 methodology that would be generally acceptable in the A. Okay. And I would like for you -- you recall field of geology? 5 there was a number of documents that Mr. Frost showed A. Yes. 6 you regarding six asbestos test results that were MR. FROST: Objection to form. contained in the asbestos chart in your report beginning BY MS. O'DELL: Q. Did you rely on peer-reviewed literature at page 14. Do you recall those questions? 8 9 to support your opinions? A. Yes. 10 And if I marked them correctly, Mr. Frost 10 A. Yes. O. pointed out one, two, three, four, five, six test 11 Is peer-reviewed literature always 12 available for specific mineral formations or deposits in 12 results that he took issue with. Do you recall that? 13 geology? A. Yes. How many positive tests results, just 14 Q. 14 A. Not necessarily. 15 15 estimate if you don't know --Q. You were asked about the documents that 16 you had received, internal documents that you had Approximately 125. 17 So let me -- and so let me ask you this received in formulating your opinions in this case. Obviously, corporate documents were not available to you 18 question. Is there anything that you heard today that, 19 in your mind, would call into question the veracity of other than lawyers giving them to you, fair? 20 the test results that, the other 125 test results that 20 Yes. Correct. 21 you reported in the chart, which begins in your report 21 You didn't have an independent way to get 22 the documents from Johnson & Johnson or Imerys in order 22 on page 14? 23 MR. FROST: Objection to form. 23 to reach your opinions, right? 24 24 Correct. No. A. 25 And did you feel that you had adequate 25

Page 326 Page 328 1 materials to support the opinions contained in your 1 particular order, but if we can first turn to the IARC 2 report? 2 monograph. It's the one right in front of you there. 3 Which exhibit number is that? MR. FROST: Objection to form. 4 MR. BILLINGS-KANG: Objection to form. I'm sorry. What? 5 Q. 5 Which exhibit number is that? A. Yes. 6 Five. 6 BY MS. O'DELL: A. 7 Q. In terms of the testing documents that Okay. If you can turn to page 284. 8 are mentioned and reported in your expert report, are A. So if you look at the bottom of the page, 9 testing documents something that you rely on in the Q. 10 normal course of your role as a geologist? Miss O'Dell had you read from the line starting, "The 11 A. Yes. most common minerals found in talc products," but before 12 0. Would that also be true of core logs? that, it reads, "Because talc deposits are formed from 13 A. different protoliths under many different geological 14 And those are some of the documents that conditions, each talc deposit has a combination of mineralogy and mineral habit that is distinctive and, in you cited in your report? 16 Yes. many cases, unique." Did I read that correctly? A. 17 17 Let me ask you just to talk just briefly A. There's no citation for that and, yes, about your qualifications as a geologist. As a 18 you did. geologist, are you -- do you teach the process of 19 Q. Sir, my question is: Did I read that evaluating mineral deposits? correctly? 20 20 21 21 A. A. Yes. I teach a course on ore deposits, and I've taught courses on industrial minerology and 22 Q. And that's what the IARC monograph says, 23 I've taught --23 correct? 24 Q. Excuse me. 24 A. Correct. 25 25 When I was at George Mason, I would Q. If you can turn to the Van Gosen article, Page 327 Page 329 1 regularly teach minerology. 1 which is Exhibit 11. 2 2 Q. And would those courses have included A. Okay. 3 teaching students how to conduct expiration such as 3 Page 934. Q. 4 drilling, core drilling and other ways to define an ore All right. I'm on that page. deposit? Before, when you were reading this, you 5 6 A. Yes. 6 skipped over most of Number 3. Number 3 reads, "a 7 MR. FROST: Object to form. 7 nearly mono-mineralogical talc zone (often of high purity) several centimeters to meters thick." Did I 8 BY MS. O'DELL: read that correctly? 9 Q. Have you given presentations on those 9 types of activities? 10 A. 10 Yes. 11 A. Yes. 11 Do you agree with me that that would be 12 12 the talc ore zone, correct? MS. O'DELL: Okay. I don't have anything 13 13 further. Thank you. MS. O'DELL: Object to the form. 14 THE WITNESS: Okay. Presumably. A nearly -- a nearly 15 monomineralic -- mineralogical talc zone. MR. FROST: Could we go off the record? 16 VIDEOGRAPHER: Sure. We are now going BY MR. FROST: 17 17 off record, and the time is 8:13. Q. Now, if we can turn to Exhibit 15, which 18 (A recess was taken from 8:13 to 8:20.) is the Chidst article -- Chidester. 18 19 19 VIDEOGRAPHER: We are now back on record, A. 215. 20 and the time is 8:20. 20 And specifically page 28. Okay. Counsel 21 FURTHER CROSS-EXAMINATION had pointed you to the second paragraph, the second 22 column down, and you read the, "In the southwest face of 22 BY MR. FROST: 23 Q. All right, Doctor. A couple quick 23 the quarry, there is large mass of actinolite rock," follow-ups, and unfortunately, I'm going to run them in 24 correct? 25 the order they're in my binder, which probably is no A. Correct.

	Page 330		Page 332
1	Q. It doesn't say here that it's asbestos	1	CERTIFICATE
2	actinolite, correct?	2	
3			: SS
4	A. It does not specifically say that it's	3	County of Hamilton:
	asbestos.	4	I, Susan M. Gee, RMR, CRR, the undersigned, a
5	Q. And you couldn't, without speculating,	5	duly commissioned notary public within and for the State
6	based on this document, say whether or not it's	6	of Ohio, do hereby certify that before the giving of his
7	asbestos, correct?	7	aforesaid deposition, MARK KREKELER, Ph.D., was by me
8	MS. O'DELL: Object to the form.	8	first duly sworn to depose the truth, the whole truth
9	A. I would agree.	9	and nothing but the truth; that the foregoing is the
10	BY MR. FROST:	10	deposition given at said time and place by MARK
11	Q. And then the sentence before that, the	11	, , ,
12	end of it reads, No serpentine has been found; is that	1	respects pursuant to stipulations of counsel; that I am
13	correct?		neither a relative of nor employee of any of their
14	A. No. It says, "No serpentinite."	14	parties or their counsel, and have no interest whatever in the result of the action; that I am not, nor is the
15	Q. "No serpentinite," sorry, "has been	16	court reporting firm with which I am affiliated, under a
16	found"?	17	contract as defined in Civil Rule 28(D).
17	A. "Has been found."	18	IN WITNESS WHEREOF, I have hereunto set my
18	Q. Okay. Sorry. I did read it incorrectly.	19	hand and official seal of office at Cincinnati, Ohio, on
19	You are right. So "No serpentinite has been found"?	20	this 29th day of January, 2019.
20	That's correct?	21	
21		22	
	A. Correct.		
22	MR. FROST: That's all questions I have,	23	My commission expires: S/ Susan M. Gee, RMR, CRR
23	sir.		September 20, 2020. Notary Public - State of Ohio
24	VIDEOGRAPHER: Is that it?	24	
25	MR. FERGUSON: I don't have any	25	
	Page 331		Page 333
1	Page 331	1	Page 333
1 2	questions.	1 2	Page 333
2	questions. MS. O'DELL: I have nothing further.		Page 333 DECLARATION UNDER PENALTY OF PERJURY
2 3	questions. MS. O'DELL: I have nothing further. MR. FROST: All right.	2	
2 3 4	questions. MS. O'DELL: I have nothing further. MR. FROST: All right. VIDEOGRAPHER: This adjourns the	2	DECLARATION UNDER PENALTY OF PERJURY
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1	1 DEPOSITION ERRATA SHEET	
	2 Case Name: Talcum Powder Litigation	
	Name of Witness: Mark Krekeler, Ph.D.	
3	3 Date of Deposition: January 25, 2019	
	Reason Codes: 1. To clarify the record.	
4		
l _	3. To correct transcription errors.	
5		
	6 Page Line Reason 7 From to	
'	8 Page Line Reason	
	9 Fromto	
	10 Page Line Reason	
11	11 Fromto	
	12 Page Line Reason	
	13 From to	
	14 Page Line Reason	
15	15 From to	
	16 Page Line Reason	
1 /	17 From to 18 Page Line Reason	
	19 From	
	the transcript is true and correct.	
21	21No changes have been made. I certify that the	
	transcript is true and correct.	
22	22	
23		
	MARK KREKELER, Ph.D.	
24		
25	25	
1		